

Pioneer

Owner's Manual

DVD RDS AV RECEIVER

AVH-P6300BT



English

Thank you for purchasing this PIONEER product.

To ensure proper use, please read through this manual before using this product. It is especially important that you read and observe **WARNING**s and **CAUTION**s in this manual. *Please keep the manual in a safe and accessible place for future reference.*



Be sure to read this

- DVD video disc region numbers **6**
- Handling guidelines **93**

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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, no viewing of front seat video should ever occur while the vehicle is being driven. Also, rear displays should not be in a location where they are visibly distracting to the driver.
- In some countries or states the viewing of images on a display inside a vehicle even by persons other than the driver may be illegal. Where such regulations apply, they must be obeyed and this unit's DVD features should not be used.

When you attempt to watch a video image while driving, the warning **Viewing of front seat video source while driving is strictly prohibited.** will appear on the front display.

Precautions

To watch a video image on the front display, park your vehicle in a safe place and apply the parking brake.

When using a display connected to REAR MONITOR OUTPUT

Passengers in the rear seat can also watch moving images or still images if you connect this unit to a display using the **REAR MONITOR OUTPUT**.



WARNING

NEVER install the rear display in a location where the driver can watch a DVD or TV while driving.

When using the rear view camera

With an optional rear view camera, this unit can be used as an aid to keep an eye on trailers, or when backing into a tight parking spot.




WARNING

- **SCREEN IMAGE MAY APPEAR REVERSED.**
- **USE INPUT ONLY FOR REVERSE OR MIRROR IMAGE REAR VIEW CAMERA. OTHER USE MAY RESULT IN INJURY OR DAMAGE.**



CAUTION

- The rear view camera function is to be used as an aid to keep an eye on trailers, or while backing up. Do not use for entertainment purposes.
- Please note that the edges of the rear view camera images may differ slightly according to whether full screen images are displayed when backing up, and whether the images are used for checking the rear when the vehicle is moving forward. 


To avoid battery exhaustion

Keep the vehicle engine running when using this unit to avoid draining the battery power.

- When no power is supplied to this unit, such as when the vehicle battery is being replaced, the microcomputer of this unit returns to its initial condition. We recommend that you transcribe the audio adjustment data.



WARNING

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

Before you start



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

Private households in the member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one). For countries not mentioned above, please contact your local authorities for the correct method of disposal.

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

About this unit

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

CAUTION

This product is a class 1 laser product classified under the Safety of laser products, IEC 60825-1:2007, and contains a class 1M laser module. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

CLASS 1 LASER PRODUCT

CAUTION—CLASS 1M VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

CAUTION

- Do not allow this unit to come into contact with liquids. Electrical shock could result. Also, damage to this unit, smoke, and overheating could result from contact with liquids.
- Always keep the volume low enough to hear outside sounds.
- Avoid exposure to moisture.
- If the battery is disconnected or discharged, any preset memory will be erased.

DVD video disc region numbers

Only DVD video discs with compatible region numbers can be played on this player. You can find the region number of the player on the bottom of this unit and in this manual (refer to *Specifications* on page 101).


Operating environment

This unit should be used within the temperature ranges shown below.

Operating temperature range: -10°C to $+60^{\circ}\text{C}$
 EN300328 ETC test temperature: -20°C and $+55^{\circ}\text{C}$

Before you start

In case of trouble

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

Protecting your unit from theft

The front panel can be detached to deter theft.

- If the front panel is not detached from the head unit within four seconds of turning off the ignition, a warning tone will sound.
- You can turn off the warning tone. Refer to *Switching the warning tone* on page 62.

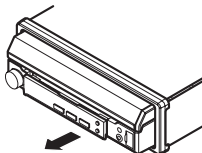
Important

- Handle gently when removing or attaching the front panel.
- Avoid subjecting the front panel to excessive shock.
- Keep the front panel out of direct sunlight and high temperatures.
- If removed, replace the front panel on the unit before starting up your vehicle.
- To avoid damaging the device or vehicle interior, remove any cables and devices attached to the front panel before detaching it.

Removing the front panel

- **Pinch the top and bottom of its right side and pull the front panel out.**

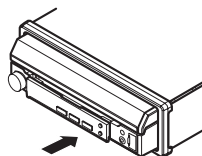
Take care not pinch it too tightly or to drop it, and also avoid contact with water or other fluids to prevent permanent damage.




Re-attaching the front panel

- 1 Slide the front panel to the left.**

The front panel and the head unit are connected on the left side. Make sure that the front panel has been properly connected to the head unit.



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

- If you can't attach the front panel to the head unit successfully, try again. Forcing the front panel into place may result in damage. 

Resetting the microprocessor

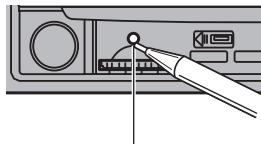
By pressing **RESET**, you can reset the microprocessor to its initial settings without changing the bookmark information.

The microprocessor must be reset in the following situations:

- Before 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

Note


Switch your engine ON or set the ignition switch to ACC ON before pressing **RESET** in the following situations:

- After completing connections
- When erasing all stored settings
- When resetting the unit to its initial (factory) settings 


Demo mode

The feature demo automatically starts when you select **Source Off** for the source and continues while the ignition switch is set to ACC or ON. To cancel the feature demo, press and hold **MUTE/** . Press and hold **MUTE/**  again to restart. Operating the feature demo while the car engine is turned off it may drain the battery power.


 **Important**

Failure to connect the red lead (ACC) of this unit to a terminal coupled with ignition switch on/off operations may lead to battery drain. 

Adjusting the response positions of the touch panels (Touch Panel Calibration)

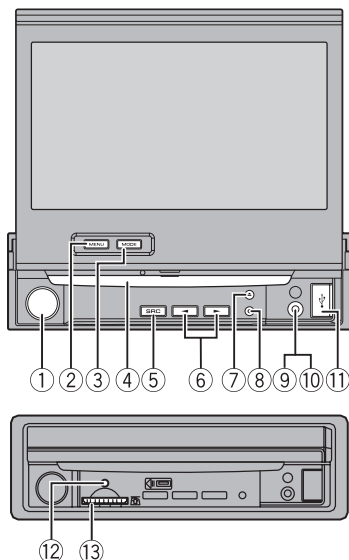
If you feel that the touch panel keys on the screen deviate from the actual positions that respond to your touch, adjust the response positions of the touch panel. Refer to *Adjusting the response positions of the touch panels (Touch Panel Calibration)* on page 69. 

About this manual

The English screens are used for the explanations in this Owner's manual. When **Русский** is selected in *Selecting the menu language* on page 59, the display language will switch to Russian. 

What's what

Head unit



Part	Part
① Volume/ MUTE /	⑧ OPEN/CLOSE
MENU Displaying the menu. Returning to the normal display.	⑨ AUX input jack (3.5 mm stereo/video jack) Use to connect an auxiliary device.
②	⑩ Auto EQ microphone input jack Use to connect an auto EQ microphone.
③ MODE Turning the information display off.	⑪ USB port When connecting, open the USB connector lid.
④ Disc loading slot	⑫ RESET
⑤ SRC/OFF	⑬ SD memory card slot
⑥ TRACK/SEEK	
⑦ (eject)	

CAUTION

- Use an optional Pioneer USB cable (CD-U50E) to connect the USB audio player/USB memory as any device connected directly to the unit will protrude out from the unit and may be dangerous.
- Do not use unauthorized products.

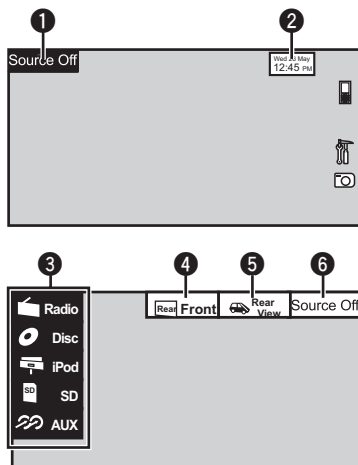
Notes

- Insert an SD memory card with the contact surface facing down, and press on the card until it clicks and completely locks into place.
- When the navigation system is connected, press **MODE** to switch to the navigation display. Press **MODE** and hold to turn the display off. Press **MODE** again to turn the display on.
- Press and hold **MENU** to display **Picture Adjustment**.
Refer to *Changing the picture adjustment* on page 68.
- For details on how to operate a navigation system from this unit, refer to its operation manual.

Optional remote control

The remote control CD-R55 is sold separately. For details concerning operations, see the remote control manual.

Basic operations of this unit



Touch panel keys

① **Source Off** Displaying the source menu.

② Switching to clock adjustment display. Refer to *Setting the clock* on page 13.

③ Source icon
Selecting a favorite source. When the source icon is not displayed, it can be displayed by touching the screen.

④ Switching the output source for the rear monitor. Refer to *Setting rear monitor output* on page 68.

⑤ Switching the rear view image on or off.

⑥ **Source Off** Turning the unit off.

Turning the unit on using the buttons

① Press **SRC/OFF** to turn the unit on.

Turning the unit off using the buttons

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

Selecting a source using the buttons

① Press **SRC/OFF** to cycle through the sources listed below:

Selecting a source using the touch panel keys

① Touch the source icon and then touch the desired source name.

- **Radio** – Radio
- **TV** – Television
- **AV** – AV input
- **Disc** – Built-in DVD player
- **USB/iPod** – USB/iPod
- **SD** – SD memory card
- **EXT1** – External unit 1
- **EXT2** – External unit 2
- **AUX** – AUX
- When the source icon is not displayed, it can be displayed by touching the screen.
- While operating the menu, you cannot select a source by touching the source icon.

Adjusting the volume

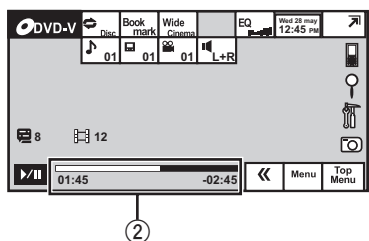
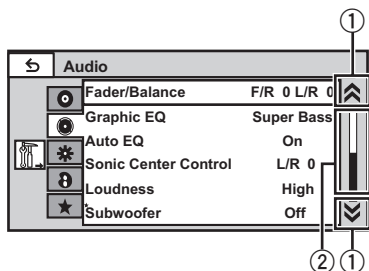
① Turn **MUTE/** to adjust the volume.

Notes

- In this manual, iPod and iPhone will be referred to as “iPod”.
- The **USB/iPod** icon will change as follows:
 - **USB** is displayed when a USB storage device is connected.
 - **iPod** is displayed when an iPod is connected.
 - **USB/iPod** is displayed when no device is connected.
- When appropriately set up, the image from the rear view camera can be displayed automatically. For details, refer to *Setting the rear view camera (back up camera)* on page 62.
- An external unit refers to a Pioneer product, such as those which will be available in the future. Although incompatible as a source, the basic functions of up to two external units can be controlled with this unit. When two external units are connected, the external units are automatically allocated to external unit 1 or external unit 2.

Basic operations

Operating the scroll bar and the scrubber bar



- ① Scroll icon
Appears when selectable items are hidden.
- ② Scrubber bar
Appears when the playback point can be specified or set by dragging.

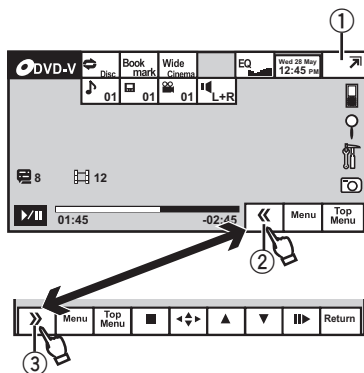
Viewing the hidden items

- ① Touch the scroll icon or drag the scrubber bar to view any hidden items.
 - Also, you can drag the list to view any hidden items.




Specifying the playback point

- ① Drag the scrubber bar on the screen.
(Not available when the scrubber bar is grayed out.)

Activating the touch panel keys



Touch panel keys

- ①  Turning the display to simplified display.
Returning to the normal display by touching the screen when playing moving images.
Returning to the normal display by touching same icon when playing audio.
- ②  Viewing the hidden touch panel keys.
- ③  Shorten the touch panel area.

Common operations for menu settings/lists



Starting the Bluetooth telephone menu.
Refer to *Introduction of Bluetooth telephone operations* on page 23.



Displaying the list menu.
Starting the search function.



Displaying the menu.
Refer to *Introduction of menu operations* on page 40.



Displaying still images as a slide show when listening to another source.
Viewing slide shows.
Refer to *Introduction of still image playback operations* on page 21.



Returning to the previous display.
Returning to the previous list/category (the folder/category one level higher.)



Opening and closing the LCD panel

The LCD panel will open or close automatically when the ignition switch is turned on or off. You can turn off the automatic close/open function.

- Do not close the LCD panel by force with your hands. That will cause a malfunction.
- The automatic close/open function will operate the display as follows.
 - When the ignition switch is turned OFF while the LCD panel is opened, the LCD panel will close after six seconds.
 - When the ignition switch is turned ON again (or turned to ACC), the LCD panel will open automatically.
 - Removing or attaching the front panel will automatically close or open the LCD panel. (Refer to *Protecting your unit from theft* on page 7.)

- When the ignition switch is turned OFF after the LCD panel has been closed, turning the ignition switch ON again (or turning it to ACC) will not open the LCD panel. In this case, press **OPEN/CLOSE** to open the LCD panel.
- When closing the LCD panel, check to make sure that it has closed completely. If the LCD panel has stopped halfway, leaving it like this could result in damage.

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.


● Press **OPEN/CLOSE** to open the LCD panel.

- To close the LCD panel, press **OPEN/CLOSE** again.


Turning the LCD panel horizontally

When the LCD panel is upright and hinders the operation of the air conditioner, the panel can be turned horizontally temporarily.

● Press and hold **OPEN/CLOSE** to turn the LCD panel horizontally.

- To return to the original position, press and hold **OPEN/CLOSE** again.
- The LCD panel returns to the original position automatically, indicated with a beeping sound 10 seconds after operation. 


Ejecting a disc

- 1 Press **▲** (eject).
- 2 Eject a disc. 


Ejecting an SD

- 1 Remove the front panel.

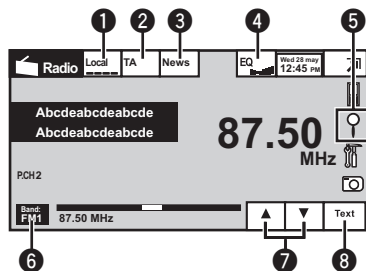
Refer to *Removing the front panel* on page 7.

- 2 Push an SD.
- 3 Eject an SD. 

Setting the clock

- 1 **Switch to Clock Adjustment display.**
Refer to *Basic operations of this unit* on page 10.
- 2 **Select the item to set.**
- 3 **Touch ▲ or ▼ to set the correct date and time.** 

Introduction of tuner operations



Touch panel keys

①

Local

Turning local seek tuning on and off.
Refer to *Tuning in to strong signals* on page 25.

②

TA

Turning TA (traffic announcement standby) on and off.
Refer to *Receiving traffic announcements* on page 26.

③

News

Turning news program interruption on and off.
Refer to *Using news program interruption* on page 26.

④

EQ

Switching the equalizer curves.
Refer to *Using the equalizer* on page 41.
Touch and hold for more than two seconds to turn the auto-equalizer on or off.
Refer to *Using the auto-equalizer* on page 42.

⑤



Displaying the preset channel list.
Refer to *Storing and recalling stations* on page 25.
Refer to *Storing the strongest stations* on page 25.
Refer to *Using PTY functions* on page 26.

⑥

Band:

Selecting a band (FM1, FM2, FM3 for FM or MW/LW).

⑦



Recalling radio station frequencies assigned to preset tuning keys.

⑧

Text

Displaying radio text
Refer to *Displaying radio text* on page 25.
Storing and recalling radio text.
Refer to *Storing and recalling radio text* on page 25.


Manual tuning (step by step) using the buttons

① Press ◀ or ▶ (**TRACK/SEEK**).

Seek tuning using the buttons

① Press and hold ◀ or ▶ (**TRACK/SEEK**).

Note

Noise may be generated when listening to MW/LW radio while charging an iPod with this unit. In such cases, disconnect the iPod from the unit. 

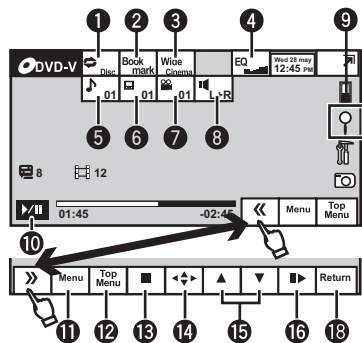
Playing moving images

Introduction of video playback operations

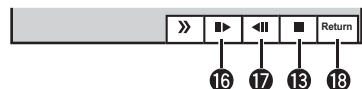
You can view DVD/DVD-R/DVD-RW/CD/CD-R/CD-RW/USB/SD/iPod.

If an iPod with video capabilities is connected to this unit using an interface cable such as the CD-IU50V (sold separately), you can enjoy the video contents of the iPod as an **iPod** source.

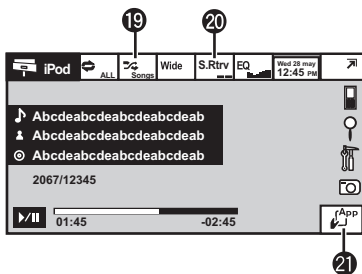
DVD video



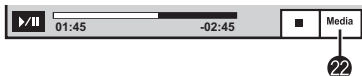
Video CD











iPod video



When playing a disc containing a mixture of various media file types



Touch panel keys

- 1  Selecting the repeat range. Refer to *Repeating playback* on page 28.
- 2  During playback, touch the point at which you want to resume playback the next time the disc is loaded. Refer to *Resume playback (Bookmark)* on page 30.
- 3  Changing the screen mode. Refer to *Changing the wide screen mode* on page 34.
- 4  Switching the equalizer curves. Refer to *Using the equalizer* on page 41. Touch and hold for more than two seconds to turn the auto-equalizer on or off. Refer to *Using the auto-equalizer* on page 42.
- 5  Switching between audio languages during playback. Refer to *Changing audio language during playback (Multi-audio)* on page 31.
- 6  Switching between subtitle languages during playback. Refer to *Changing the subtitle language during playback (Multi-subtitle)* on page 31.
- 7  Switching among viewing angles during playback. Refer to *Changing the viewing angle during playback (Multi-angle)* on page 31.
- 8  Switching the audio output, when playing video discs recorded with LPCM audio. Refer to *Selecting audio output* on page 31. Switching between stereo and monaural audio output, when playing Video CD discs.

Playing moving images

9



Starting the search function. Refer to *Searching for the part you want to play* on page 30. Refer to *Selecting files from the file name list* on page 32. Displaying iPod menus. Refer to *Playing videos from your iPod* on page 29 and *Browsing for a video/music on the iPod* on page 29.

10



Pausing playback. Returning to normal playback during paused, slow motion, or frame-by-frame playback.

11

Menu

Displaying the DVD menu during DVD playback. Refer to *Operating the DVD menu* on page 27.

12

Top Menu

Returning to the top menu during DVD playback.

13



Stopping playback. Stopping playback at the point set in Resume playback. Touch one more time to stop playback completely when playing DivX. Refer to *Resume playback (Bookmark)* on page 30.

14



Displaying arrow keys to operate the DVD menu. Refer to *Using the arrow keys* on page 27.

15



Skipping to another title. Selecting a folder during DivX file playback.

16



Moving ahead one frame at a time during playback. Refer to *Frame-by-frame playback* on page 30. Touch and hold for more than two seconds to slow down playback speed. Speeding up the playback speed in four steps during slow motion playback on DVD video/Video CD.

17



Speeding down the playback speed in four steps, during slow motion playback on Video CD.

18

Return

Returning to the specified scene to which the DVD currently being played has been preprogrammed to return. Refer to *Return to the specified scene* on page 31.

19



Playing the video on your iPod in a random order. Refer to *Random play (shuffle)* on page 28.

20

S.Rtrv

Switching the S.Rtrv (sound retriever) function setting when playing a video on your iPod. Refer to *Using S.Rtrv (sound retriever)* on page 32.

21



Conducting operation from your iPod and listening to it using your car's speakers. Refer to *Operating this unit's iPod function from your iPod* on page 27.

22

Media

Switching between media file types to play on DVD/CD/USB/SD. Refer to *Switching the media file type* on page 27.

Playing moving images

Playing back videos

- 1 Insert the disc into the disc loading slot with the label side up.
Playback will automatically start.
- If you are playing a DVD or Video CD, a menu may appear. Refer to *Operating the DVD menu* on page 27 and *PBC playback* on page 32.
 - When the automatic playback function is on, the unit will skip the DVD menu and automatically start playback from the first chapter of the first title. Refer to *Automatic playback of DVDs* on page 57.
 - While an iPod is connected to this unit, **PIONEER, Accessory Attached** or ✓ (check mark) is displayed on the iPod.
 - When the source icon is not displayed, it can be displayed by touching the screen.
 - Disconnect headphones from the iPod before connecting it to this unit.
 - Depending on the iPod model and the amount of data stored in the iPod, it may take some time for playback to begin.
 - Use the touch panel keys to select the iPod after connecting it to this unit.
 - **No Device** is displayed when disconnecting the iPod.
 - If a message is displayed after loading a disc containing DivX VOD content, touch **Play**. Refer to *Playing DivX® VOD content* on page 33.

Ejecting a disc

- 1 Refer to *Ejecting a disc* on page 12 or *Ejecting an SD* on page 12.

Selecting a chapter using the buttons

- 1 Press ◀ or ▶ (**TRACK/SEEK**).

Fast forwarding or reversing using the buttons

- 1 Press and hold ◀ or ▶ (**TRACK/SEEK**).
- Fast forward/fast rewind may not always be possible on some discs. In such cases, normal playback will automatically resume.

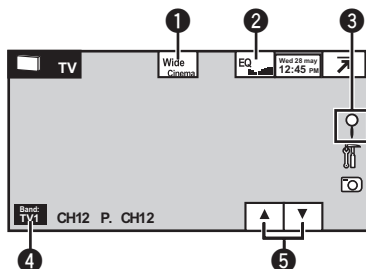
tails, refer to *Resume playback (Bookmark)* on page 30.

- Some operations may not be available while watching a media due to the programming of the disc. In such cases, the ⏸ icon appears on the screen.
- To ensure proper operation, connect the dock connector cable from the iPod directly to this unit.
- While the iPod is connected to this unit, the iPod cannot be turned on or off. However, the iPod can be turned on or off when you select an SD as the source. ■

Notes

- This DVD player can play back a DivX file recorded on CD-R/RW or DVD-R/RW. (Please see the following section for files that can be played back. Refer to *DivX video files* on page 95.)
- Do not insert anything other than a DVD (-R/-RW) or CD (-R/-RW) into the disc loading slot.
- If the bookmark function is on, DVD playback resumes from the selected point. For more de-

Introduction of TV tuner operations




You can use this unit to control a TV tuner, such as the GEX-P5700TVP (sold separately).

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


Touch panel keys

1 **Wide** Changing the screen mode. Refer to *Changing the wide screen mode* on page 34.

2 **EQ** Switching the equalizer curves. Refer to *Using the equalizer* on page 41. Touch and hold for more than two seconds to turn the auto-equalizer on or off. Refer to *Using the auto-equalizer* on page 42.

3  Displaying the preset screen. Refer to *Storing and recalling stations* on page 25. Refer to *Storing the strongest stations* on page 25.

4 **Band:** Selecting a band.

5  Recalling radio station frequencies assigned to preset tuning keys. Refer to *Storing and recalling stations* on page 25.


Manual tuning (step by step) using the buttons

1 Press ◀ or ▶ (**TRACK/SEEK**).

Seek tuning using the buttons

1 Press and hold ◀ or ▶ (**TRACK/SEEK**).

Notes

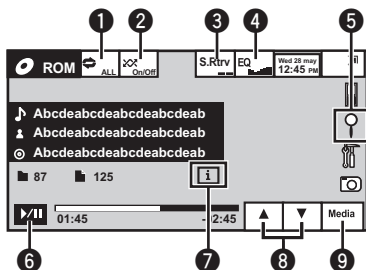
- Refer to *Setting the video signal* on page 63 to set the TV signal.
- Refer to *Selecting the area group* on page 63 to select the area group. 

Playing audio

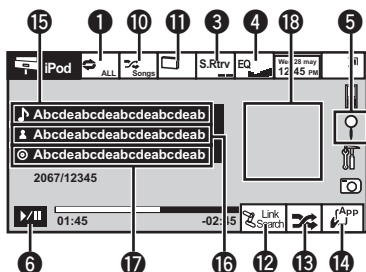
Introduction of sound playback operations

You can listen to DVD-R/DVD-RW/CD/CD-R/CD-RW/USB/SD/iPod sound files.

Audio CD






iPod audio



You can control an iPod with this unit by using a cable such as the CD-IU50 (sold separately).

Touch panel keys

- | | | |
|---|---|---|
| 1 |  | <p>Selecting the repeat range.
Refer to <i>Repeating playback</i> on page 28.</p> |
| 2 |  | <p>Playing songs in random order.
Refer to <i>Random play (shuffle)</i> on page 28.</p> |
| 3 |  | <p>Switching the S.Rtrv (sound retriever) function setting when playing audio.
Refer to <i>Using S.Rtrv (sound retriever)</i> on page 32.</p> |

4

EQ

Switching the equalizer curves.
Refer to *Using the equalizer* on page 41.
Touch and hold for more than two seconds to turn the auto-equalizer on or off.
Refer to *Using the auto-equalizer* on page 42.

5



Displaying a list of track titles to select songs on a CD.
Refer to *Selecting tracks from the track title list* on page 32.
Displaying the file name list to select the files.
Refer to *Selecting files from the file name list* on page 32.
Displaying iPod menus.
Refer to *Browsing for a video/music on the iPod* on page 29.

6



Pausing and starting playback.

7



Switching the text information to display on this unit when playing MP3/WMA/AAC files.

8



Selecting a folder.

9

Media

Switching between media file types on a DVD/CD/USB/SD.
Refer to *Switching the media file type* on page 27.

10



Playing songs on the iPod in random order.
Refer to *Random play (shuffle)* on page 28.

11



Changing the speed of audiobook playback on the iPod.
Refer to *Changing audiobook speed* on page 33.

12



Switching to Link Search mode to play songs related to the currently playing song on the iPod. Refer to *Displaying lists related to the currently playing song (Link Search)* on page 33.

13



Playing all songs on the iPod in random order. Refer to *Playing all songs in random order (shuffle all)* on page 28.

14



Conducting operation from your iPod and listening to it using your car's speakers. Refer to *Operating this unit's iPod function from your iPod* on page 27.

Text information

15



Displaying the **Songs** list on the iPod. Refer to *Searching for a video/music by category* on page 29.

16



Displaying the **Artists** list on the iPod. Refer to *Searching for a video/music by category* on page 29.

17



Displaying the **Albums** list on the iPod. Refer to *Searching for a video/music by category* on page 29.

Artwork display

18

Starting **Album Link Search** on your iPod when you touch the artwork display. Refer to *Displaying lists related to the currently playing song (Link Search)* on page 33.

Playing back sound

- 1 Insert the disc into the disc loading slot with the label side up. Playback will automatically start.
 - While an iPod is connected to this unit, **PIONEER, Accessory Attached** or ✓ (check mark) is displayed on the iPod.
 - When the source icon is not displayed, it can be displayed by touching the screen.
 - Disconnect headphones from the iPod before connecting it to this unit.
 - Depending on the iPod model and the amount of data stored in the iPod, it may take some time for playback to begin.
 - Use the touch panel keys to select the iPod after connecting it to this unit.
 - **No Device** is displayed when disconnecting the iPod.

Ejecting a disc

- 1 Refer to *Ejecting a disc* on page 12 or *Ejecting an SD* on page 12.

Selecting a track using the buttons

- 1 Press ◀ or ▶ (**TRACK/SEEK**).

Fast forwarding or reversing using the buttons

- 1 Press and hold ◀ or ▶ (**TRACK/SEEK**).

Notes

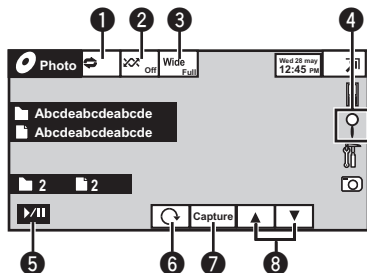
- When playing back files recorded as VBR (variable bit rate) files, the play time will not be correctly displayed if fast forward or reverse operations are used.
- To ensure proper operation, connect the dock connector cable from the iPod directly to this unit.
- While the iPod is connected to this unit, the iPod cannot be turned on or off. However, the iPod can be turned on or off when you select an SD as the source.
- If the characters recorded on the disc are not compatible with this unit, those characters will not be displayed.
- Text information may not be correctly displayed depending on the recorded environment.
- Disconnect the USB portable audio player/USB memory when you are done using it.
- When you select **Clock** or **Speana** on *Selecting the background display* on page 66, the artwork is not displayed. ■

Playing still images

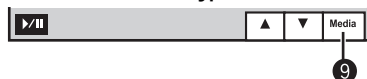
Introduction of still image playback operations

You can view still images saved in CD-R/CD-RW/USB/SD.

CD



When playing a disc containing a mixture of various media file types



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

The table below shows the controls for viewing a slideshow.

Touch panel keys

1		Selecting the repeat range. Refer to <i>Repeating playback</i> on page 28.
2		Playing files in a random order. Refer to <i>Random play (shuffle)</i> on page 28.
3	Wide	Changing the screen mode. Refer to <i>Changing the wide screen mode</i> on page 34.
4		Displaying the file name list to select the files. Refer to <i>Selecting files from the file name list</i> on page 32.

5		Starting or pausing the slideshow.
6		Rotating the displayed picture 90° clockwise.
7	Capture	Capturing an image in JPEG files. Refer to <i>Capture an image in JPEG files</i> on page 33.
8		Selecting a folder.
9	Media	Switching between media file types. Refer to <i>Switching the media file type</i> on page 27.

Playing still images

- 1 Insert the disc into the disc loading slot with the label side up. Playback will automatically start.
 - When the source icon is not displayed, it can be displayed by touching the screen.

Ejecting a disc

- 1 Refer to *Ejecting a disc* on page 12 or *Ejecting an SD* on page 12.

Selecting a file using the buttons

- 1 Press ◀ or ▶ (**TRACK/SEEK**).

Fast file searching

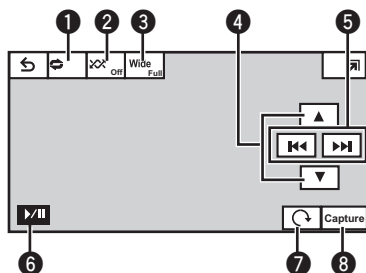
- 1 Press and hold ◀ or ▶ (**TRACK/SEEK**).
 - You can search 10 JPEG files at a time.

Notes

- This unit can play back a JPEG file recorded on CD-R/CD-RW/SD/USB storage device. (Please see the following section for files that can be played back. Refer to *JPEG picture files* on page 95.)
- Files are played back in file number order and folders are skipped if they contain no files. (If folder **01** (ROOT) contains no files, playback commences with folder **02**.)

Introduction of still image playback as a slideshow operations

You can view still images saved in CD-R/CD-RW/USB/SD as a slideshow when listening to another source.



The table below shows the controls for viewing a slideshow.

Touch panel keys

1		Selecting the repeat range. Refer to <i>Repeating playback</i> on page 28.
2		Playing files in a random order. Refer to <i>Random play (shuffle)</i> on page 28.
3		Changing the screen mode. Refer to <i>Changing the wide screen mode</i> on page 34.
4		Selecting a folder.
5		Selecting a file.
6		Starting or pausing the slideshow.

7		Rotating the displayed picture 90° clockwise.
8		Capturing an image in JPEG files. Refer to <i>Capture an image in JPEG files</i> on page 33.

1 Start slideshow when listening to another source.

Refer to *Common operations for menu settings/lists* on page 12.



Displaying still images as a slide show.

2 Select the device containing the files that you want to display.

- **Disc** – Built-in DVD player
 - **USB** – USB
 - **SD** – SD memory card
- To cancel searching, touch **Cancel**.

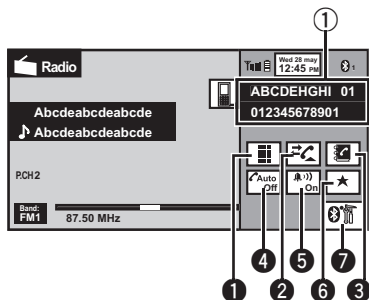
Note

When the USB or SD source is selected, this unit cannot view still images on USB/SD as a slideshow.

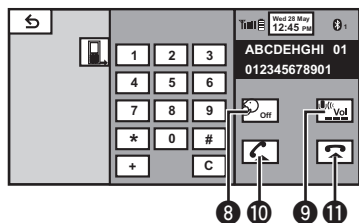
Bluetooth Telephone

Introduction of Bluetooth telephone operations

Telephone standby display



When switching to the entering phone number mode



You can use Bluetooth telephone.

Important

- Since this unit is on standby to connect with your cellular phone via Bluetooth wireless technology, using it without the engine running can drain the battery power.
- Advanced operations that require attention such as dialing numbers on the monitor, etc., are prohibited while driving. Park your vehicle in a safe place when using these advanced operations.
- Operations available may be limited depending on the cellular phone connected to this unit.
- Be sure to park your vehicle in a safe place and apply the parking brake when performing this operation.

① Incoming call notice

Indicates that an incoming call has been received and has not been checked yet.

- Not displayed for calls made when your cellular phone is disconnected from this unit.

Touch panel keys

- | | | |
|---|--|---|
| ① | | Switching the mode to enter the phone number directly. Refer to <i>Making a call by entering phone number</i> on page 37. |
| ② | | Switching to the call history list. Refer to <i>Using the missed, received and dialed call lists</i> on page 35. |
| ③ | | Switching to the phone book mode. Refer to <i>Calling a number in the phone book</i> on page 34. Refer to <i>Selecting a number by alphabet search mode</i> on page 35. |
| ④ | | Turning automatic answering on or off. Refer to <i>Setting automatic answering</i> on page 36. |
| ⑤ | | Turning the ring tone for incoming calls on or off. Refer to <i>Switching the ring tone</i> on page 36. |
| ⑥ | | Displaying the preset dial screen. Refer to <i>Using the preset dial lists</i> on page 36. |
| ⑦ | | Displaying the Bluetooth connection menu. Refer to the instructions from page 37 to page 39. |
| ⑧ | | Turning private mode on or off. Refer to <i>Setting the private mode</i> on page 37. |
| ⑨ | | Adjusting the other party's listening volume. Refer to <i>Adjusting the other party's listening volume</i> on page 36. |

Bluetooth Telephone

10




Accepting an incoming call.
Making a phone call, when selecting a phone number.
Switching between callers on hold.

11



Ending a call.
Rejecting an incoming call.
Canceling call waiting.

Notes

- You can also use **MUTE**/ to accept an incoming call, end a call and reject an incoming call.
- Private mode can only be operated while you are talking on the phone.
- To end the call, both you and the other caller must hang up your phones.

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

First, you need to connect a Bluetooth telephone to this unit.

For detailed instructions on connecting your phone to this unit via Bluetooth wireless technology, see following section. *Using a Bluetooth device to pair* on page 38 and *Pairing from this unit* on page 37.

2 Volume adjustment

Adjust the earpiece volume of your cellular phone to your preference. The unit will record the adjusted volume level as the default setting.

- The volume of the caller's voice and ring tone may vary depending on the type of cellular phone.
- If there is a large volume difference between the ring tone and caller's voice, the overall volume level may become unstable.
- Make sure to adjust the volume to a proper level before disconnecting the cellular phone from the unit. 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.



Detailed instructions

Storing and recalling stations

You can easily store up to six (for tuner)/12 (for TV) stations for each band as presets.

1 Display the preset screen.

Refer to *Introduction of tuner operations* on page 14.

Refer to *Introduction of TV tuner operations* on page 18.

The preset screen appears in the display.


2 Touch and hold one of the preset tuning keys to store the selected frequency in the memory.

The selected radio/TV station frequency has been stored in the memory.

3 Touch one of the preset tuning keys to select the desired station.

Displaying radio text

Radio text data transmitted by RDS stations, such as station information, the name of the currently broadcast song and the name of the artist, can be displayed on this tuner.

- When no radio text is received, **No Text** appears in the display. 

Storing and recalling radio text


You can store data from up to six radio text transmissions to the **Memo1** to **Memo6** keys.

1 Display the radio text you want to store in the memory.

Refer to *Introduction of tuner operations* on page 14.

2 Touch and hold one of the keys to store the selected radio text.

The memory number is displayed and the selected radio text will be stored in the memory.

The next time you press the same button in radio text display the stored text will be recalled from the memory. 

Storing the strongest stations

BSM (best stations memory) automatically stores the six (for tuner)/12 (for TV) strongest stations.

Storing broadcast frequencies with BSM may replace broadcast frequencies you have saved using the preset tuning keys.

1 Display the preset screen.

Refer to *Introduction of tuner operations* on page 14.

Refer to *Introduction of TV tuner operations* on page 18.

The preset screen appears in the display.

2 Touch BSM/BSSM to turn BSM on.


The six (for tuner)/12 (for TV) strongest broadcast frequencies will be stored under preset tuning keys in order of their signal strength.

- To cancel the storage process, touch **Cancel**. 

Tuning in to strong signals

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

FM: off — 
 MW/LW: off — 

The highest level setting allows reception of only the strongest stations, while lower levels allow the reception of weaker stations. 

Receiving traffic announcements


Regardless of the source you are listening to, you can receive traffic announcements automatically with TA (traffic announcement standby).

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

 indicator lights up.

2 Turn Traffic announcement on.

Refer to *Introduction of tuner operations* on page 14.


- If the TA function is turned on when you are not tuned in to a TP or enhanced other network's TP station, the  indicator lights up dimly.

3 Turn volume(MUTE) to adjust the TA volume when a traffic announcement begins.

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

4 Cancel the announcement while a traffic announcement is being received.

Refer to *Introduction of tuner operations* on page 14.

The tuner returns to the original source but remains in the TA function standby mode until the icon is touched again. .

Using PTY functions

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

Searching for an RDS station by PTY information

You can search for general types of broadcasting programs, such as those listed in the following section. Refer to this page.

1 Display the preset screen.

Refer to *Introduction of tuner operations* on page 14.

2 Touch PTY.

3 Touch ▲ or ▼ to select a program type.

There are four program types:

News&Info—Popular—Classics—Others

4 Touch Start to begin the search.

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

PTY (program type ID code) information is listed in the following section. Refer to this page.

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

Using news program interruption

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

PTY list

News&Info

News (News), **Affairs** (Current affairs), **Info** (Information), **Sport** (Sports), **Weather** (Weather), **Finance** (Finance)

Popular

Pop Mus (Popular music), **Rock Mus** (Rock music), **Easy Mus** (Easy listening), **Oth Mus** (Other music), **Jazz** (Jazz), **Country** (Country music), **Nat Mus** (National music), **Oldies** (Oldies music), **Folk Mus** (Folk music)

Classics

L. Class (Light classical), **Classic** (Classical)

Detailed instructions

Others

Educate (Education), **Drama** (Drama), **Culture** (Culture), **Science** (Science), **Varied** (Varied), **Children** (Children's), **Social** (Social affairs), **Religion** (Religion), **Phone In** (Phone in), **Touring** (Travel), **Leisure** (Leisure), **Document** (Documentaries)



Switching the media file type

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

Audio data (CD-DA) and JPEG picture files on DVD-R/RW/ROM cannot be played back on this unit.

CD (audio data (CD-DA))—**Music/ROM** (compressed audio)—**Video** (DivX video files)—**Photo** (JPEG picture files)

Operating the DVD menu

(Function for DVD video)

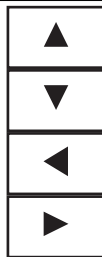
Some DVDs allow you to make a selection from the disc contents using a menu.

Using the arrow keys

1 Display arrow keys to operate the DVD menu.

Refer to *Playing moving images* on page 15.

2 Select the desired menu item.



Selecting the desired menu item.



Starting playback from the selected menu item.



Operating the DVD menu by directly touching the menu item.

- When operating the DVD menu by directly touching the menu item, touch the icon to operate.



Returning to the normal DVD video display.



Displaying arrow keys.

- Ways to display the menu will differ depending on the disc.
- Depending on the contents of the DVD disc, this function may not work properly. In such cases, use the touch panel keys to operate the DVD menu.

Operating this unit's iPod function from your iPod

You can listen to the sound from your iPod applications using your car's speakers, when **App Mode** is selected.

This function is not compatible with the following iPod models.

- iPod nano 1st generation
- iPod 5th generation

Detailed instructions

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


1 Switch the control mode to App Mode.

Refer to *Introduction of video playback operations* on page 15.

Refer to *Introduction of sound playback operations* on page 19.


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

Notes

- The following functions are still accessible from the unit even if the control mode is set to **App Mode**.
 - Playing/pausing
 - Fast forwarding/reversing
 - Tracking up/down
 - Moving to a chapter up/down
- APP mode is compatible with the following iPod models.
 - iPhone 4 (software version 4.1 or later)
 - iPhone 3GS (software version 4.1 or later)
 - iPhone 3G (software version 4.1 or later)
 - iPhone (software version 3.1.3 or later)
 - iPod touch 4th generation (software version 4.1 or later)
 - iPod touch 3rd generation (software version 4.0 or later)
 - iPod touch 2nd generation (software version 4.0 or later)
 - iPod touch 1st generation (software version 3.1.3 or later) 


Random play (shuffle)

Videos/songs/files can be played back in random order.

- **Songs** – Play back videos/songs in the selected list in random order.
- **Albums** – Play back videos/songs from a randomly selected album in order.
- **Folder** – Play back songs/tracks in the selected folder in random order.
- **Disc** – Play back songs/tracks in the selected disc in random order.
- **On** – Play back files in random order within the repeat range, **Folder** and **Disc**.
- **Off** – Cancel random play. 

Playing all songs in random order (shuffle all)


(Function for iPod)

This method plays all songs on the iPod randomly. 

Repeating playback

- **Disc** – Play through the current disc
- **Chapter** – Repeat the current chapter
- **Title** – Repeat the current title
- **Track** – Repeat the current track
- **File** – Repeat the current file
- **Folder** – Repeat the current folder
- **One** – Repeat just the current video/song/track
- **All** – Repeat all videos/songs in the selected list on the iPod
Repeat all files
- This function cannot be operated during Video CD playback featuring PBC (playback control).
- If you perform chapter search, fast forward/reverse, frame-by-frame playback or slow motion playback, the title repeat play will stop.
- When playing discs with compressed audio and audio data (CD-DA), playback is repeated within the type of data currently playing even if **Disc** is selected.
- If you select another folder during repeat play, the repeat play range changes to **Disc**. If you select USB or SD source, the repeat play range changes to **All**.
- If you perform track search or fast forward/reverse during **File**, the repeat play range changes to **Folder**.

Detailed instructions

- If you perform title/chapter search, fast forward/reverse, frame-by-frame playback or slow motion playback during **Chapter**, the repeat play range changes to **OFF**.
- If you perform track search or fast forward/reverse during **Track**, the repeat play range changes to **Disc**.
- When **Folder** is selected, it is not possible to play back a subfolder of that folder. 

Playing videos from your iPod

(Function for iPod)

Videos can be played on this unit if an iPod with video capabilities is connected.

- This unit can play back “Movies”, “Music videos”, “Video Podcast” and “TV show” which are downloaded from the iTunes store.
- Before you display the video screen, be sure to change the video setting on the iPod so that the iPod can output the video to an external device.

1 Display the iPod menus.

Refer to *Playing moving images* on page 15.

2 Switch to iPod video mode.



Switching to iPod video mode.

3 Play the video from the iPod.

- If you want to switch to iPod music mode, touch the icon.



Switching to iPod music mode.



Browsing for a video/music on the iPod

(Function for iPod)

To make operating and searching easy, operations to control an iPod with this unit are designed to be as similar to the iPod as possible.

Searching for a video/music by category

1 Display the iPod menus.

Refer to *Playing moving images* on page 15.

Refer to *Playing audio* on page 19.

2 Touch one of the categories in which you want to search for a video/music.

- **Video Playlists** (video playlists)
- **Movies** (movies)
- **Music Videos** (music videos)
- **Video Podcasts** (video podcasts)
- **TV Shows** (TV shows)
- **Playlists** (playlists)
- **Artists** (artists)
- **Albums** (albums)
- **Songs** (songs)
- **Podcasts** (podcasts)
- **Genres** (genres)
- **Composers** (composers)
- **Audiobooks** (audiobooks)

3 Touch the title of the list that you want to play.

Repeat this operation until you find the desired video/music.

4 Start playback of the selected list.



Starting playback of the selected list.

Searching the list by alphabet

(Function for iPod)

1 Select a category.

Refer to *Searching for a video/music by category* on this page.

Detailed instructions

2 Switch to alphabet search mode.



Switching to alphabet search mode.

Alphabet search mode is displayed.

3 Touch the first letter of the title of the video/song you are looking for.

While searching, touch panel key operation is not available.

- To refine the search with a different letter, touch **Cancel**.

4 Touch the title of the list that you want to play.

Repeat this operation until you find the desired song/video.

5 Start playback of the selected list.



Starting playback of the selected list.



Resume playback (Bookmark)

(Function for DVD video)

By using the Bookmark function, you can resume playback from a selected scene the next time the disc is loaded.

The selected scene will be bookmarked so that playback resumes from that point next time.

- To clear the bookmark on a disc, touch and hold the button during playback.
- The oldest bookmark is replaced by the new one.

Frame-by-frame playback

(Function for DVD video/video CD/DivX file)

Note

Images during frame-by-frame playback may be unclear for some discs.

Slow motion playback

Notes

- There is no sound during slow motion playback.
- Images during slow motion playback may be unclear for some discs.
- Reverse slow motion playback is not available.

Searching for the part you want to play

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

For DVD videos, you can select **Title** (title), **Chapter** (chapter) or **10key** (numeric keypad). For video CDs, you can select **Track** (track) or **10key** (numeric keypad).

- Chapter search is not available when disc playback is stopped.
- This function cannot be operated during some DVD videos or Video CD playback featuring PBC (playback control).

1 Start the search function.

Refer to *Playing moving images* on page 15.

2 Touch the desired search option (e.g., Chapter).

3 Touch 0 to 9 to input the desired number.

- To cancel the entered numbers, touch **C**.

4 Start playback from the selected part.



Registering the numbers and starting playback.

Note

With discs featuring a menu, you can also use the DVD menu to make your selection.


Refer to *Playing moving images* on page 15.

Detailed instructions

Changing audio language during playback (Multi-audio)

With DVDs/DivX files that provides audio playback in different languages and different audio systems (Dolby Digital, DTS, etc.), you can switch between languages/audio systems during playback.


Notes

- With some DVDs, switching between languages/audio systems may only be possible using a menu display.
- You can also switch between languages/audio systems using **Video Setup** menu. For details, refer to *Setting the audio language* on page 54.
- Depending on the setting, the video may not be played back with the audio system used to record the DVD.
- You will return to normal playback if you change the **Audio** during fast forward/fast rewind, pause or slow motion playback. 

Changing the subtitle language during playback (Multi-subtitle)

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

Notes


- With some DVDs, switching between subtitle languages may only be possible using a menu display.
- You can also switch between subtitle languages using **Video Setup** menu. For details, refer to *Setting the subtitle language* on page 54.
- You will return to normal playback if you change the **Subtitle** during fast forward/fast rewind, pause or slow motion 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. Use the **Video Setup** menu to turn the angle icon display on or off. For details, refer to *Setting the multi-angle DVD display* on page 55.

Note

You will return to normal playback if you change the viewing angle during fast forward/fast rewind, pause or slow motion playback. 

Return to the specified scene


(Function for DVD video)

This function cannot be used if a specified scene has not been preprogrammed on the DVD disc. 

Selecting audio output

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

- This function is not available when disc playback is stopped.
- **L+R** – left and right
- **Left** – left
- **Right** – right
- **Mix** – mixing left and right

You may not be able to select or use this function depending on the disc and the playback location. 

PBC playback

(Function for Video CDs)

During playback of Video CDs featuring PBC (Playback Control), **PBC ON** is displayed.

1 Start the search function.

Refer to *Playing moving images* on page 15.

2 Touch 10key to display the numeric keypad.

3 Touch 0 to 9 corresponding to a menu number.

4 Start playback from the selected part.



Registering the numbers and starting playback.

Notes

- You can display the menu by touching **Return** during PBC playback. For details, refer to the instructions provided with the disc.
- PBC playback of a Video CD cannot be canceled.
- During playback of Video CDs featuring PBC (Playback Control), you cannot select the repeat play range or use the search function.

Selecting tracks from the track title list

You can select tracks to playback using the track title list which is a list of the tracks recorded on a disc.

1 Display the track title list.

Refer to *Playing audio* on page 19.

2 Touch your favorite track title.

Playback begins.

Selecting files from the file name list

(Function for USB/SD/DivX)

File name list is a list of file names (or folder names) from which you can select a file (or folder) to play back.

1 Display the file (or folder) name list.

Refer to *Playing audio* on page 19.

Refer to *Introduction of still image playback operations* on page 21.

2 Touch your favorite file (or folder) name.

- When you have selected a folder, a list of the names of the files (or the folders) in it can be viewed. Repeat this operation to select the desired file name.
- If folder **01** (ROOT) contains no files, playback commences with folder **02**.

3 Start playback of the selected list.



Starting playback of the selected list.



Using S.Rtrv (sound retriever)

Automatically enhances compressed audio and restores rich sound.

Off — ■ — ■ ■

- ■ ■ is more effective than ■.





Note

When you use this unit with a multi-channel processor (DEQ-P6600) and switch the S.Rtrv (sound retriever) function to ■ or ■ ■, the volume will become slightly lower. The volume will become much lower for ■ ■ than it will for ■. Take care when you increase the volume for ■ ■ and then switch to **Off**, because the volume will suddenly seem much louder.

Detailed instructions

Changing audiobook speed

(Function for iPod)

-  – Playback at a speed faster than normal
-  – Playback at normal speed
-  – Playback at a speed slower than normal 

Displaying lists related to the currently playing song (Link Search)

(Function for iPod)

1 Start Link Search.

Refer to *Introduction of sound playback operations* on page 19.

2 Touch one of the categories in which you want to play.

- **Artist** – Displays an album list of the artist currently being played.
- **Album** – Displays a song list from the album currently being played.
- **Genre** – Displays an album list from the genre currently being played.
- To cancel searching, touch **Cancel**.

3 Touch the title of the list that you want to play.

4 Start playback of the selected list.



Starting playback of the selected list.



Playing DivX® VOD content

Some DivX VOD (video on demand) content may only be playable a fixed number of times. When you load a disc containing this type of content, the remaining number of times it can

be played is shown on-screen. You can then decide whether or not to play the disc.


- If there is no limit to the number of times the DivX VOD content can be viewed, then you may load the disc into your player and play the content as often as you like, and no message will be displayed.
- You can confirm the number of times that the content can be played by checking the number displayed after **Remaining Views**:

Important

- In order to play DivX VOD contents on this unit, you first need to register the unit with your DivX VOD contents provider. For details on your registration code, refer to *Displaying the DivX® VOD registration code* on page 57.
- DivX VOD content is protected by a DRM (Digital Rights Management) system. This restricts playback of content to specific, registered devices.

● If a message is displayed after loading a disc containing DivX VOD content, touch Play.

Playback of the DivX VOD content will start.

- To skip to the next file, touch **Next Play**.
- If you do not want to play the DivX VOD content, touch **Stop**. 

Capture an image in JPEG files

You can capture image data and use it as wallpaper. Images can be stored and recalled easily in this unit.

- Only one image can be stored on this unit. Old image is overwritten with the new one.

1 Pause the slideshow when the desired image is displayed.

Refer to *Introduction of still image playback operations* on page 21.

Refer to *Introduction of still image playback as a slideshow operations* on page 22.

Detailed instructions

2 Capture the image.

Refer to *Introduction of still image playback operations* on page 21.

Refer to *Introduction of still image playback as a slideshow operations* on page 22.

3 When Do you save this image? is displayed, touch Yes.

While storing the image to this unit, **Saving the image Don't switch off the battery.** is displayed. When the process is finished, **Image saved.** is displayed.

- To cancel the storage process, touch **No.**

Changing the wide screen mode

You can select a desired mode for enlarging a 4:3 picture to a 16:9 picture.

1 Display the screen mode.

Refer to *Introduction of video playback operations* on page 15.

Refer to *Introduction of still image playback operations* on page 21.

Refer to *Introduction of still image playback as a slideshow operations* on page 22.

2 Touch the desired wide mode setting.

Full (full screen)

The 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 toward the edges of the screen, enabling you to enjoy a 4:3 picture without sensing any disparity even when viewing 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 the picture.

Zoom (zoom)

The 4:3 picture is enlarged in the same proportion both vertically and horizontally; ideal for a cinema sized picture (wide screen picture).

Normal (normal)

The 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

- You cannot operate this function while driving.
- Different settings can be stored for each video source.
- When a 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.

Calling a number in the phone book

The phone book in your cellular phone will be transferred automatically when the phone is connected to this unit.

After finding the number you want to call in the phone book, you can select the entry and make the call.

1 Switch to phone book mode.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

The phone book display appears.

2 Select the phone number list.

The detailed phone number list of the selected entry is displayed.

Detailed instructions

3 Select the phone number.

- If you want to store the phone number, touch and hold the list.


4 Make the call.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

5 End the call.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

Note

Depending on the cellular phone, the phone book may not be transferred automatically. In this case, operate your cellular phone to transfer the phone book. The visibility of this unit should be on. Refer to *Switching visible unit* on page 39. 

Selecting a number by alphabet search mode

If a lot of numbers are registered in the phone book, you can search for the phone number by alphabet search mode.

1 Switch to phone book mode.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

The phone book display appears.

2 Touch ABC to switch to alphabet search mode.

3 Touch the first letter of the entry you are looking for.

The Phone Book entries starting with that letter (e.g. "Ben", "Brian" and "Burt" when "B" is selected) will be displayed.

- If you want to change the character to Russian, touch the icon. To return to English, touch the icon again.



Changing the character to Russian.

- The order of the first name and last name may be different from that of the cellular phone.

4 Touch the list to display the phone number list of the selected entry.

- If several phone numbers are included in an entry, select one by touching the list.
- If you want to switch to the call history list, touch the icon.



Switching to the call history list.

5 Make the call.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

6 End the call.

Refer to *Introduction of Bluetooth telephone operations* on page 23. 

Using the missed, received and dialed call lists

The 80 most recent calls dialed, received, and missed are stored in the memory. You can browse them and call numbers from these lists.

1 Switch to the call history list.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

2 Select Missed Calls, Dialed Calls or Received Calls.



Displaying the received call list.



Displaying the dialed call list.



Displaying the missed call list.

Detailed instructions

3 Touch the list number to select a phone number.

Name and phone number are displayed in the detailed list.

- If you want to store the phone number, touch and hold the list.

4 Make the call.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

5 End the call.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

Setting automatic answering

If this function is on, this unit automatically answers all incoming calls.

● Turn automatic answering on or off.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

Adjusting the other party's listening volume

To maintain the good sound quality, this unit can adjust the other party's listening volume. If the volume is not loud enough for the other party, use this function.

● Select Far-End VOL.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

1—2—3

- This function can be performed even while talking on the phone.
- Settings can be stored for each device.

Switching the ring tone

You can select whether or not to use this unit's ring tone. If this function is set to on, the ring tone for this unit will sound.

1 Connect your cellular phone to this unit.

2 Turn ring tone on or off.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

Using the preset dial lists

You can easily store up to six phone numbers as presets.

1 Display the preset screen.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

2 Touch one of preset dial keys to select the desired phone number.

- If you want to delete a preset phone number, touch and hold the preset dial key.

3 Make the call.

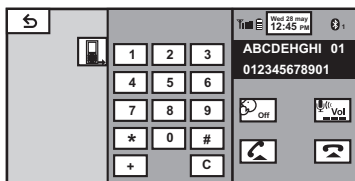
Refer to *Introduction of Bluetooth telephone operations* on page 23.

4 End the call.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

Detailed instructions

Making a call by entering phone number



Important

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

1 Switch to the entering phone number mode.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

2 Touch the number icons to input the numbers.

- Up to 24 digits can be entered.

3 Make the call.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

4 End the call.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

Note

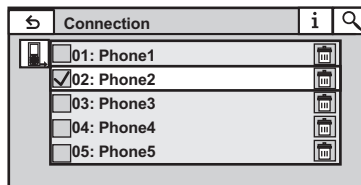
Entering phone number mode cannot be operated unless a Bluetooth telephone is connected to this unit.

Setting the private mode

During a conversation, you can switch to private mode (talk directly on your cellular phone).

Refer to *Introduction of Bluetooth telephone operations* on page 23.

Pairing from this unit



1 Display the Bluetooth Connection Menu.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

2 Touch Connection to select a device.

3 Start to search.



Starting to search.

While searching, is displayed and when available devices are found, the device names or Bluetooth device addresses (if names cannot be obtained) are displayed.

- If you want to switch between the device names and Bluetooth device addresses, touch the icon.



Switching between the device names and Bluetooth device addresses.

- To cancel searching, touch **Stop**.
- If five devices are already paired, **Memory Full** is displayed and pairing cannot be performed. In such cases, delete a paired device first. Refer to the next page.
- If no device can be found, **Not Found** is displayed. In such cases, check the status of the Bluetooth device and search again.

4 Touch a device name to select the device you want to connect to.

While connecting, **Pairing** is displayed. If the connection is established, **Paired** is displayed.

- If the connection fails, **Error** is displayed. In such cases, try again from the beginning.

Detailed instructions

- The PIN code is set to **0000** as the default, but can be changed. Refer to *Entering PIN code for Bluetooth wireless connection* on the next page.
 - When establishing connection, the icon is displayed.
- Touch the icon to disconnect the device.



Disconnecting a Bluetooth device.

- If you want to delete a paired Bluetooth telephone, display **Delete OK?**. Touch **Yes** to delete the device.



Deleting a paired device.

- Never turn the unit off while the paired Bluetooth telephone is being deleted.

Using a Bluetooth device to pair

If you cannot open the connection between your Bluetooth device and this unit from your Bluetooth device, you can use this function to establish a connection.

1 Display the Bluetooth Connection Menu.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

2 Touch Special Device to select the special device.

- Bluetooth devices that are difficult to establish a connection with are called special devices. If your Bluetooth device is listed as a special device, select the appropriate one.

3 Touch the special device list to open the connection.

This unit is now on standby for a connection with the Bluetooth device.

- If five devices are already paired, **Memory Full** is displayed and pairing cannot be performed. In such cases, delete a paired device first. Refer to this page.

4 Use your Bluetooth device to establish a connection.

The connection method is different depending on the Bluetooth device. Refer to the manual for your Bluetooth device to establish a connection.

While connecting, **Pair your phone** is displayed. If the connection is established, **Paired** is displayed.

- If the connection fails, **Error** is displayed. In such cases, try again from the beginning.
- You may also need to enter a PIN code into this unit. If your telephone requires a PIN code to establish a connection, look for the code on the telephone or in its accompanying documentation.
- The PIN code is set to **0000** as the default, but can be changed. Refer to *Entering PIN code for Bluetooth wireless connection* on the next page.

Connecting to a Bluetooth device automatically

If this function is set to on, a connection between your Bluetooth device and this unit will take place automatically as soon as the two devices are less than a few meters apart. Initially, this function is set to on.

1 Display the Bluetooth Connection Menu.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

2 Touch Auto Connect to turn automatic connection on.

If your Bluetooth device is ready for a Bluetooth wireless connection, a connection to this unit will automatically be established.

Detailed instructions

- To turn automatic connection off, touch **Auto Connect** again.

3 Turn your vehicle's ACC switch off and on.


Switching visible unit

This function sets whether or not to make this unit visible to the other device. Initially, this function is set to on.

1 Display the Bluetooth Connection Menu.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

2 Touch Visibility to select visibility off.

- To turn visibility on, touch **Visibility** again. 

Displaying Bluetooth Device address

This unit displays its Bluetooth device address.

1 Display the Bluetooth Connection Menu.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

2 Touch Device Information to display device information.

The Bluetooth device address is displayed. 

Entering PIN code for Bluetooth wireless connection

To connect your Bluetooth device to this unit via Bluetooth wireless technology, you need to enter a PIN code on your Bluetooth device to verify the connection. The default code is **0000**, but you can change it with this function.

1 Display the Bluetooth Connection Menu.

Refer to *Introduction of Bluetooth telephone operations* on page 23.

2 Touch PIN Code Input to select PIN code input.

3 Touch 1 to 0 to input pin code.

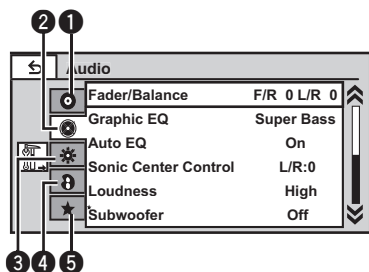
4 After inputting PIN code (up to 8 digits), store in this unit.



Storing the PIN code in this unit.



Introduction of menu operations



1 Display menus.

Refer to *Common operations for menu settings/lists* on page 12.

2 Touch any of the following touch panel keys to select the menu to be adjusted.

Touch panel keys

1



Video Setup menu
Refer to *Setting up the DVD player* on page 54.

2



Audio function menu
Refer to *Audio Adjustments* on the next page.
DSP function menu
Refer to *Introduction of DSP adjustments* on page 44.

3



System menu
Refer to *System settings* on page 58.

4



Entertainment menu
Refer to *Entertainment settings* on page 66.

5



Custom menu
You can choose menus within each menu (Audio function menu, etc.) and register them to this custom menu.
Refer to *Customizing menus* on page 67.

processor's audio menu. For details, refer to *Introduction of DSP adjustments* on page 44.

- You can display the **Video Setup** menu when a **Disc**, **USB** or **SD** source is selected.
- If you start the **Video Setup** menu, playback is stopped.
- You cannot display the Audio function menu when the mute function is on or a JPEG file is playing.

Notes

- If the multi-channel processor (DEQ-P6600) is connected to this unit, the audio function will change according to the multi-channel pro-

Menu operations

Audio Adjustments

Note

When selecting FM as the source, you cannot switch to **Source Level Adjuster**.

Using fader/balance adjustment

You can change the fader/balance setting to provide an ideal listening environment for all of the occupied seats.

1 Display the audio function menu.

Refer to *Introduction of menu operations* on the previous page.

2 Touch Fader/Balance on the audio function menu.

3 Touch ▲ or ▼ to adjust the front/rear speaker balance.

Range: **Front:15** to **Rear:15**

- Select **F/R: 0 L/R: 0** when only using two speakers.
- The front/rear speaker balance cannot be adjusted when the rear output setting is

Subwoofer. Refer to *Setting the rear output and subwoofer controller* on page 58.

4 Touch ◀ or ▶ to adjust the left/right speaker balance.

Range: **Left:15** to **Right:15**

Using the equalizer

You can adjust the equalization to match the car's interior acoustic characteristics as desired.

Recalling equalizer curves

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

Display	Equalizer curve
Powerful	Powerful
Natural	Natural

Display	Equalizer curve
Vocal	Vocal
Custom1	Custom 1
Custom2	Custom 2
Flat	Flat
Super Bass	Super bass

- The equalizer curves for **Custom1** and **Custom2** can be adjusted.
- You cannot select **Custom1** and **Custom2** when using the auto-equalizer.
- When **Flat**, no changes are made to the sound. You can check the effects of the equalizer curves by switching alternatively between **Flat** and another equalizer curve.

1 Display the audio function menu.

Refer to *Introduction of menu operations* on the previous page.

2 Touch Graphic EQ on the audio function menu.

- You can select **Graphic EQ** when **Auto EQ** function is off.

3 Touch ◀ or ▶ to select the desired item. **Powerful—Natural—Vocal—Custom1—Custom2—Flat—Super Bass**

Adjusting the 8-band graphic equalizer

You can adjust the level of each band for the equalizer curves.

- A separate **Custom1** curve can be created for each source. If you make adjustments when a curve other than **Custom2** is selected, the equalizer curve settings will be recorded in **Custom1**.
- A **Custom2** curve that is common for all sources can be created. If you make adjustments when the **Custom2** curve is selected, the **Custom2** curve will be updated.

1 Display the audio function menu.

Refer to *Introduction of menu operations* on the previous page.

Menu operations

2 Touch Graphic EQ on the audio function menu.

3 Touch ◀ or ▶ to select the desired item.
Powerful—Natural—Vocal—Custom1—
Custom2—Flat—Super Bass

4 Touch the Equalizer band to adjust.

5 Touch ▲ or ▼ to adjust the level of the equalizer band.

Range: **+12dB** to **-12dB**

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

Using the auto-equalizer

The auto-equalizer is an equalizer curve created by auto EQ (refer to *Auto EQ (auto-equalizing)* on page 63).

You can turn the auto-equalizer on or off.

If you connect an optional microphone to this unit, you can use this function.

1 Display the audio function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Auto EQ to turn the auto-equalizer on or off.

- You cannot use this function if auto EQ has not been carried out.

Using sonic center control

Sound that is suited for the listening position can easily be created with this function.

1 Display the audio function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Sonic Center Control on the audio function menu.

3 Touch ◀ or ▶ to select a listening position.

Range: **Left:7** to **Right:7**

Adjusting loudness

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

1 Display the audio function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Loudness on the audio function menu.

3 Touch ◀ or ▶ to select a desired level.

Off (off)—**Low** (low)—**Mid** (mid)—**High** (high)

Using subwoofer output

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

- The cut-off frequency and output level can be adjusted when the subwoofer output is on.

1 Display the audio function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Subwoofer on the audio function menu.

3 Touch On or Off next to Subwoofer to turn the subwoofer output on or off.

4 Touch Normal or Reverse next to Phase to select the phase of subwoofer output.

5 Touch ◀ or ▶ next to Level to adjust the output level of the subwoofer.

Range: **+6** to **-24**

6 Touch ◀ or ▶ next to Frequency to select the cut-off frequency.

50Hz—63Hz—80Hz—100Hz—125Hz

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

Menu operations

Boosting the bass

You can boost the bass level.

1 Display the audio function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch ◀ or ▶ to select a desired level.

Range: 0 to +6

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 Display the audio function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch ◀ or ▶ next to Frequency to select cut-off frequency.

Off (off)—50Hz—63Hz—80Hz—100Hz—125Hz

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

Adjusting source levels

With SLA (source level adjustment), the volume levels of each source can be adjusted to prevent significant differences between sources.

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

1 Display the audio function menu.

Refer to *Introduction of menu operations* on page 40.


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

3 Touch Source Level Adjuster on the audio function menu.

4 Touch ▲ or ▼ to adjust the source volume.

Range: +4 to -4

Notes

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

Digital Signal Processor

Introduction of DSP adjustments

You can use this unit to control a DEQ-P6600 multi-channel processor (sold separately).

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

- 1 *Setting the speaker setting*
- 2 *Using the position selector*
- 3 *Auto TA and EQ (auto-time alignment and auto-equalizing)*
- 4 *Adjusting 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 the 3-band parametric equalizer*

Notes

- You cannot use the audio functions when playing discs recorded at a sampling frequency higher than 96 kHz. The equalizer curve setting, **Position**, **Auto EQ** and **Auto TA** will also be canceled.
- Sound is only emitted from front speakers when playing discs recorded at a sampling frequency higher than 96 kHz.
- When selecting FM as the source, you cannot switch to **Source Level Adjuster**.
- You can only switch to **Dynamic Range Control** when you are playing DVD discs.
- You can only switch to **Time Alignment** when either **Front-L** or **Front-R** is selected in **Position**.
- When the speaker setting for both the center and rear speakers are set to OFF, you cannot switch to **Dolby Pro Logic II**.
- When the multi-channel processor (DEQ-P6600) is connected to this unit, you cannot use **MUTE** function.

Using the position selector

One way to assure a more natural sound is to optimize the stereo image and place you right

in the center of the sound field. With the position selector function, you can automatically adjust the speaker output levels and insert a delay time to match the number and position of the occupied seats. When used in conjunction with the SFC, this feature will make the sound image more natural and offer a panoramic sound that envelops you.

1 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Position on the DSP function menu.

3 Touch ◀/▶/▲/▼ to select a listening position.

Key	Display	Position
◀	Front-L	Left front seat
▶	Front-R	Right front seat
▲	Front	Front seats
▼	All	All seats

- To cancel the selected position, touch the same key again.

Note

When adjustments are made to the listening position, the speaker outputs are automatically set to the appropriate levels. To tailor the levels more precisely, refer to *Adjusting the speaker output levels using a test tone* on page 49 or *Adjusting the speaker output levels* on page 48.

Using fader/balance adjustment

You can change the fader/balance setting to provide an ideal listening environment for all of the occupied seats.

1 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

Menu operations

2 Touch Fader/Balance on the DSP function menu.

3 Touch ▲ or ▼ to adjust the front/rear speaker balance.

Range: **Front:25** to **Rear:25**

- Select **F/R: 0** **L/R: 0** when only using two speakers.

4 Touch ◀ or ▶ to adjust the left/right speaker balance.

Range: **Left:25** to **Right:25**

Using sound field control

The SFC function creates the sensation of a live performance.

- The acoustics of performance spaces differ depending on the extent and contour of space through which sound waves can move and on how the created sounds bounce off the stage, walls, floors and ceilings. At a live performance you hear music in three stages: direct sound, early reflections, and late reflections, or reverberations. These factors are programmed into the SFC circuitry to recreate the acoustics of various performance settings.

1 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch SFC on the DSP function menu to select the setting.

Musical(Musical)—**Drama**(Drama)—**Action**(Action)—**Jazz**(Jazz)—**Hall**(Hall)—**Club**(Club)—**Off**(Off)

Note

If the source is a 2-channel LPCM or Dolby Digital audio source, we recommend turning Dolby Pro Logic II on when selecting SFC effects that are most suitable for 5.1-channel audio sources (such as **Musical**, **Drama** or **Action**).

On the other hand, when selecting SFC effects that are suitable for 2-channel audio sources

(such as **Jazz**, **Hall** or **Club**), we recommend turning Dolby Pro Logic II off.

Adjusting source levels

With SLA (source level adjustment), the volume levels of each source can be adjusted to prevent significant differences 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 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

3 Touch Source Level Adjuster on the DSP function menu.

4 Touch ▲ or ▼ to adjust the source volume.

Notes

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

Using dynamic range control

The dynamic range refers to the difference between the smallest and largest sounds emitted. Dynamic range control compresses this difference so that the sounds can be heard clearly even at low volume levels.

- The dynamic range control is only effective for Dolby Digital sound.
- You can only switch to **Dynamic Range Control** when you are playing DVD discs.

1 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Dynamic Range Control on the DSP function menu.

3 Touch ► to turn dynamic range control on.

- To turn dynamic range control off, touch ◀.

Using the down-mix function

Multi-channel audio can be played back in 2-channels with the down-mix function.

1 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Down Mix on the DSP function menu.

3 Touch ◀ or ► to select the desired level.

- **Lo/Ro** – Stereo mixing the original audio data that does not contain channel modes such as surround sound components.
- **Lt/Rt** – Down mixing so that the surround sound components can be restored (de-coded).

Using direct control

You can override the audio settings to check their effectiveness.

- When direct control is on, all audio functions except **MUTE** and **Dolby Pro Logic II** are locked.

1 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Digital Direct on the DSP function menu.

3 Touch ► to turn the direct control on.

- To turn direct control off, touch ◀.

Using Dolby Pro Logic II

Dolby Pro Logic II creates five full-bandwidth output channels from two-channel sources to achieve high-purity matrix surround sound.

- Dolby Pro Logic II supports stereo sources with a sampling rate of up to 48 kHz and has no effect on other types of sources.
- When the speaker setting for both the center and rear speakers are set to OFF, you cannot switch to **Dolby Pro Logic II**.

1 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Dolby Pro Logic II.

3 Touch any of the following touch panel keys to select the desired mode.

- **Movie** – Suitable for movie playback
- **Music** – Suitable for music playback
- **Matrix** – Suitable when FM radio reception is weak
- **Music Adjust** – Enables adjusting the Music mode
- **Off** – Turns Dolby Pro Logic II off
 - You can only operate **Music Adjust** when **Music** has been selected.

Adjusting the music mode

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

Menu operations

- Panorama (**Panorama**) extends the front stereo image to include the surround speakers for an exciting “wraparound” effect.
- Dimension (**Dimension**) gradually adjusts the sound field either towards the front or rear.
- Center width control (**Center Width**) positions center-channel sounds between the center, left and right speakers. It improves the left-center-right stage presentation for both the driver and front passenger.

1 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Dolby Pro Logic II.

3 Touch Music and then touch Music Adjust.

- You can only operate **Music Adjust** when **Music** has been selected.

4 Touch ▲ or ▼ to select Panorama (panorama).

Panorama (panorama)—**Dimension** (dimension)—**Center Width** (center width)

5 Touch ► to turn panorama control on.

- To turn panorama control off, touch ◀.

6 Touch ▼ to select Dimension and then touch ◀ or ► to adjust the front/rear speaker balance.

Range: +3 to -3

7 Touch ▼ to select Center Width and then touch ◀ or ► to adjust the center image.

Range: 0 to 7

The default setting is **3** and is recommended for most recordings. When set to **0**, all center sound is placed in the center speaker. When set to **7**, center sound is equally placed in the left and right speakers.

Setting the speaker setting

Be sure to adjust the speaker settings, such as size (bass capacity), according to the speakers installed. Set the size to **Large** (large) if the speaker is capable of reproducing sounds of about 100 Hz and below. Otherwise, select **Small** (small).

- Low frequency sound is not emitted if the subwoofer is set to **Off** and the front and rear speakers are set to **Small** or **Off**.
- It is imperative that speakers that are not installed 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 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Speaker Setting.

3 Touch ▲ or ▼ to select the speaker to be adjusted.

Front (front speakers)—**Center** (center speaker)—**Rear** (rear speakers)—**Subwoofer** (subwoofer)—**Phase** (subwoofer setting)

- You can only switch to **Phase** when the subwoofer has been set to **On**.

4 Touch ◀ or ► to select the correct size for the selected speaker.

Off (off)—**Small** (small)—**Large** (large)

- You cannot select **Off** when **Front** (front speakers) has been selected.
- You can select **On** or **Off** when **Subwoofer** (subwoofer) has been selected.
- You can switch **Reverse** (reverse phase) or **Normal** (normal phase) when **Phase** (subwoofer setting) has been selected.

Correcting the subwoofer's phase

If boosting the bass output from the subwoofer is not effective or you feel that the bass is becoming less clear, the subwoofer output and bass content emitted from the other speakers may be canceling each other out.

Menu operations

1 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Speaker Setting.

3 Touch ▲ or ▼ to select Subwoofer (subwoofer).

Front (front speakers)—**Center** (center speaker)—**Rear** (rear speakers)—**Subwoofer** (subwoofer)—**Phase** (subwoofer setting)

4 Touch ► to turn subwoofer output on.

- To turn subwoofer output off, touch ◀.

5 Touch ▼ and then touch ◀ or ► to select the phase of subwoofer output.

Reverse—**Normal**

Note

When playing a 2-channel mono source with Dolby Pro Logic II turned on:

- No sound is emitted if the center speaker setting is **Small** or **Large** and no center speaker is installed.
- Sound is only emitted through the center speaker if it is installed and set to **Small** or **Large**.

Adjusting the speaker output levels

Fine adjustments of the speaker output level can be made by listening to audio output. First, use the test tone to adjust the speaker to an approximate level, and then use this function to make fine adjustments.

1 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Speaker Level.

3 Touch ▲ or ▼ to select the speaker to be adjusted.

Front-L (left front speaker)—**Center** (center speaker)—**Front-R** (right front speaker)—

Rear-R (right rear speaker)—**Rear-L** (left rear speaker)—**Subwoofer** (subwoofer)

- Speakers with the size set to **Off** cannot be selected. (Refer to *Setting the speaker setting* on the previous page.)

4 Touch ◀ or ► to adjust the speaker output level.

Range: **+10** to **-10**

Note

You will get the same results whether you adjust the speaker output levels with this mode or with **Test Tone**.

Selecting a cross-over frequency

The frequency under which sounds are reproduced through a subwoofer can be selected. For example, if the size of one of the installed speakers is set to **Small**, you can select the frequency under which sounds will be reproduced through a speaker set to **Large** or a subwoofer.

1 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Cross Over.

3 Touch ▲ or ▼ to select the speaker to be adjusted.

Front (front speakers)—**Center** (center speaker)—**Rear** (rear speakers)—**Subwoofer** (subwoofer)

4 Touch ◀ or ► to select the cross-over frequency.

63Hz—**80Hz**—**100Hz**—**125Hz**—**160Hz**—**200Hz**

Menu operations

Note

When you select a cross-over frequency, you are setting the cross-over frequency for the subwoofer's L.P.F. (low-pass filter) and the **Small** speaker's 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

You can easily get the right overall balance among the speakers with this function.

1 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Test Tone.

3 Touch Start to start test tone output.

The test tone is emitted from each speaker in the following sequence at intervals of about two seconds. The current settings for the speaker emitting the test tone will be shown on the display.

Front-L (left front speaker)—**Center** (center speaker)—**Front-R** (right front speaker)—**Rear-R** (right rear speaker)—**Rear-L** (left rear speaker)—**Subwoofer** (subwoofer)

Check each speaker output level. If no adjustments are needed, perform step 5 to stop the test tone.

- The settings for speakers with the size set to **Off** will not be displayed. (Refer to *Setting the speaker setting* on page 47.)

4 Touch ◀ or ▶ to adjust the speaker output level.

Range: **+10** to **-10**

- The test tone will be emitted from the next speaker after about two seconds after the last operation.

5 Touch Stop to end test tone output.

Notes

- If necessary, select speakers and adjust their 'absolute' output levels. (Refer to *Adjusting the speaker output levels* on the previous page.)
- You will get the same results whether you adjust the speaker output levels with this mode or with **Speaker Level**.

Using time alignment

The distance between the listening position and each speaker can be adjusted with this function.

1 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Time Alignment.

3 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 51.)
- **Custom** – Adjusted time alignment that you can create
- **Adjustment** – Enables adjusting the time alignment as desired
- **Off** – Turns Time Alignment off
- You cannot select **Auto TA** if auto TA and EQ have not been carried out.
- **Adjustment** can only be selected when either **Front-L** or **Front-R** is selected in **Position**.

Adjusting time alignment

The distance between the selected position and each speaker can be adjusted.

- The adjusted time alignment is stored in **Custom**.

Menu operations

1 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Time Alignment and then touch Adjustment.

▪ **Adjustment** can only be selected when either **Front-L** or **Front-R** is selected in **Position**.

3 Touch ▲ or ▼ to select the speaker to be adjusted.

Front-L (left front speaker)—**Center** (center speaker)—**Front-R** (right front speaker)—**Rear-R** (right rear speaker)—**Rear-L** (left rear speaker)—**Subwoofer** (subwoofer)

▪ Speakers with the size set to **Off** cannot be selected. (Refer to *Setting the speaker setting* on page 47.)

4 Touch ◀ or ▶ to adjust the distance between the selected speaker and the listening position.

Range: **0.0cm** to **500.0cm**

Using the equalizer

You can adjust the equalization to match the car's interior acoustic characteristics as desired.

Recalling equalizer curves

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

Display	Equalizer curve
Powerful	Powerful
Natural	Natural
Vocal	Vocal
Flat	Flat
Custom1	Custom 1
Custom2	Custom 2
Super Bass	Super bass

- The equalizer curves for **Custom1** and **Custom2** can be adjusted.
- When **Flat**, no changes are made to the sound. You can check the effects of the equalizer curves by switching alternatively between **Flat** and another equalizer curve.
- When **Digital Direct** is on, the equalizer curve is fixed to **Flat**.

1 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Parametric EQ.

3 Touch ▲ or ▼ to select the EQ (equalizer).

4 Touch ▶ to select the equalizer.

Powerful—**Natural**—**Vocal**—**Flat**—**Custom1**—**Custom2**—**Super Bass**

Adjusting the 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 that is common for all sources can be created.
- The center speaker largely determines the sound image and getting the balance right is not easy. We recommend that you first adjust the balance among all of the speakers except the center speaker, by playing 2-channel audio (a CD, for example). Then, play 5.1-channel audio (Dolby Digital or DTS) and adjust the center speaker output to match the balance already created among the other speakers.

1 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

Menu operations

2 Touch Parametric EQ.

3 Touch ▲ or ▼ to select the desired item.
EQ (equalizer)—**SP-Select** (speakers)—**Band**
 (bands)—**Frequency** (center frequency)—
Level (equalizer level)—**Q. Factor** (Q factor)

4 Touch ► to select the equalizer.
Powerful—**Natural**—**Vocal**—**Flat**—**Custom1**
 —**Custom2**—**Super Bass**

5 Touch ▼ and then touch ◀ or ▶ to select the speaker to be adjusted.
Rear (rear speakers)—**Center** (center speaker)
 —**Front** (front speakers)

- Speakers with the size set to **Off** cannot be selected. (Refer to *Setting the speaker setting* on page 47.)

6 Touch ▼ and then touch ◀ or ▶ to select the equalizer band to be adjusted.
Low (low)—**Mid** (mid)—**High** (high)

7 Touch ▼ and then touch ◀ or ▶ to select the center frequency of selected band.
40Hz—50Hz—63Hz—80Hz—100Hz—125Hz
—160Hz—200Hz—250Hz—315Hz—400Hz
—500Hz—630Hz—800Hz—1kHz—1.25kHz
—1.6kHz—2kHz—2.5kHz—3.15kHz—4kHz
—5kHz—6.3kHz—8kHz—10kHz—12.5kHz

8 Touch ▼ and then touch ◀ or ▶ to adjust the equalizer level.
 Range: **+12** to **-12**

9 Touch ▼ and then touch ◀ or ▶ to select the desired Q factor.
Narrow (narrow)—**Wide** (wide)

- Adjust the parameters of each band for the other speakers in the same way.

Note

A center frequency can be selected for each band and can be changed in 1/3-octave steps. However, the interval between the selected center frequencies cannot be shorter than 1 octave.

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 Display the DSP function menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Auto EQ.

- You cannot use this function if auto TA and EQ have not been carried out.

3 Touch ► to turn the auto-equalizer on.

- To turn the auto-equalizer off, touch ◀.

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

Auto-time alignment automatically adjusts the time alignment according to the distance between the listening position and each speaker. The auto-equalizer automatically measures the car's interior acoustic characteristics, and then creates an auto-equalizer curve based on that information.



WARNING

As a loud tone (noise) may be emitted from the speakers when measuring the car's interior acoustic characteristics, never perform auto TA or auto EQ while driving.



CAUTION

- Thoroughly check the conditions before performing auto TA and EQ as the speakers may be damaged if these functions are performed when:
 - The speakers are incorrectly connected. (For example, when a rear speaker is connected as a subwoofer output.)
 - 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 battery drainage. Be sure to place the microphone in the specified location.

Before operating the auto TA and EQ function

- Perform auto TA and EQ in a quiet place, with both the car engine and air conditioning switched off. Also turn off any car phones or portable telephones in the car, or remove them from the car. Sounds other than the measurement tone (such as surrounding sounds, engine sound, telephones ringing) may prevent correct measurement of the car's interior acoustic characteristics.
- Be sure to perform auto TA and EQ using the optional microphone. Using another microphone may prevent measurement, or result in incorrect measurement of the car's interior acoustic characteristics.
- In order to perform auto TA and EQ, the front speaker must be connected.
- When this unit is connected to a power amp with input level control, auto TA and EQ may not be possible if the power amp's input level is set below the standard level.
- When this unit is connected to a power amp with an LPF, turn this LPF off before performing auto TA and EQ. Also set the cut-off frequency for the built-in LPF of an active subwoofer to the highest frequency.
- The time alignment value resulting from auto TA and EQ has been calculated by a computer and is the optimum delay time that will give accurate results. Be sure to use the resulting value although it may differ from the actual distance when:
 - The reflected sound within the car is strong and delays occur.
 - The LPF on active subwoofers or external amps delay the lower sounds.
- Auto TA and EQ changes the audio settings as follows:

- The fader/balance settings return to the center position. (Refer to page 44.)
- The equalizer curve switches to **Flat**. (Refer to *Recalling equalizer curves* on page 50.)
- The front, center and rear speakers will automatically be adjusted to a high pass filter setting.

- Previous settings for auto TA and EQ will be overwritten.

Performing auto TA and EQ

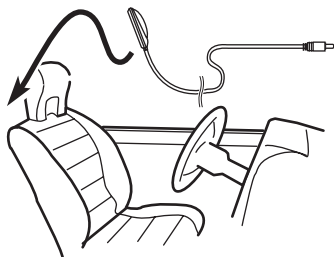
For details concerning operation, refer to the operation manual for the multi-channel processor.

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

If the engine is left running, engine noise may prevent correct auto EQ.

2 Fix the optional microphone in the center of the headrest of the driver's seat, facing forward.

The auto EQ may differ depending on where you place the microphone. If desired, place the microphone on the front passenger seat to carry out auto 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 EQ.

- If this unit is turned off, press **SRC/OFF** to turn the source on.

Menu operations

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

Refer to *Using the position selector* on page 44.

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

5 Turn the unit off.

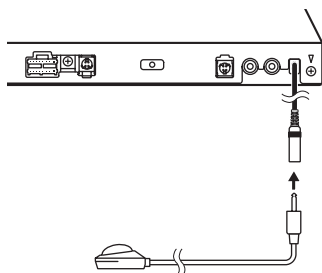
Refer to *Basic operations of this unit* on page 10.

6 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

7 Touch Auto EQ&TA Measurement to enter auto EQ and TA measurement mode.

8 Plug the microphone into the microphone input jack.



9 Touch Start to start auto EQ.

10 When the 10-second countdown starts, get out of the car and close the door within 10 seconds.

A measurement tone (noise) is emitted from the speakers, and auto EQ measurement begins.

When auto EQ is completed, **Complete** is displayed.

When the car's interior acoustic characteristics cannot be measured correctly, an error message will be displayed. (Refer to *Understanding auto EQ/auto TA and EQ error messages* on page 90.)

- It takes about nine minutes for auto EQ measurement to be completed when all the speakers are connected.
- To stop auto EQ, touch **Stop**.
- To cancel auto EQ measurement mode during this procedure, touch the following touch panel key.



Canceling auto EQ measurement mode.

11 Store the microphone carefully in the glove compartment or another safe place.

If the microphone is subjected to direct sunlight for an extended period, high temperatures may cause distortion, color change or malfunction. ▣

Setting up the DVD player

Setting the subtitle language

You can set a desired subtitle language. When available, the subtitles will be displayed in the selected language.

1 Stop playback.

Refer to *Introduction of video playback operations* on page 15.

2 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 40.

3 Touch Subtitle Language on the Video Setup menu.

A subtitle language menu is displayed.

4 Touch the desired language.

The 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 available, the language specified on the disc is displayed.
- You can also switch the subtitle language by touching the icon during playback. (Refer to *Playing moving images* on page 15.)
- The setting made here will not be affected even if the subtitle language is switched during playback using **Subtitle**.

When you select Others

A language code input display is shown when **Others** is selected. Refer to *Language code chart for DVD* on page 100.

1 Touch 0 to 9 to input the language code.

- To cancel the entered numbers, touch **C**.

2 Registering the code.



Registering the code.

Setting the audio language

You can set the preferred audio language.

1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Audio Language on the Video Setup menu.

An audio language menu is displayed.

3 Touch the desired language.

The audio language is set.

- If you have selected **Others**, refer to *When you select Others* on this page.

Notes

- If the selected language is not available, the language specified on the disc is used.
- You can also switch the audio language by touching **Audio** during playback. (Refer to *Playing moving images* on page 15.)
- The setting made here will not be affected even if the audio language is switched during playback using **Audio**.

Setting the menu language

You can set the preferred language in which the menus recorded on a disc are displayed.

1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Menu Language on the Video Setup menu.

A menu language menu is displayed.

3 Touch the desired language.

The menu language is set.

- If you have selected **Others**, refer to *When you select Others* on this page.

Note

If the selected language is not available, the language specified on the disc is displayed.

Menu operations

Setting the multi-angle DVD display

The angle icon can be set so it appears on scenes where the angle can be switched.

1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Multi Angle on the Video Setup menu to turn angle icon display on or off.

Setting the aspect ratio

There are two kinds of display: a wide screen display that has a width-to-height ratio (TV aspect ratio) of 16:9, and regular display that has a TV aspect of 4:3. Be sure to select the correct TV aspect for the display connected to **REAR MONITOR OUTPUT**.

- When using regular display, select either **Letter Box** or **Pan Scan**. Selecting **16:9** may result in an unnatural picture.
- If you select the TV aspect ratio, the unit's display will change to the same setting.

1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch TV Aspect on the Video Setup menu to select the TV aspect ratio.

Touch **TV Aspect** repeatedly until the desired aspect ratio appears.

- **16:9** – Wide screen picture (16:9) is displayed as is (initial setting)
- **Letter Box** – The picture is the shape of a letterbox with black bands on the top and bottom of the screen
- **Pan Scan** – The picture is cut short on the right and left sides of the screen

Notes

- When playing discs that do not specify **Pan Scan**, the disc is played back in **Letter Box** display even if you select the

Pan Scan setting. Confirm whether the disc package bears the **16:9 LB** mark.

- The TV aspect ratio cannot be changed for some discs. For details, refer to the disc's instructions.

Setting the slide show interval

JPEG files can be viewed as a slide show on this unit. In this setting, the interval between each image can be set.

1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Time Per Photo Slide on the Video Setup menu to select the slide show interval.

Touch **Time Per Photo Slide** repeatedly until the desired setting appears.

- **5sec** – JPEG images switch at intervals of 5 seconds
- **10sec** – JPEG images switch at intervals of 10 seconds
- **15sec** – JPEG images switch at intervals of 15 seconds
- **Manual** – JPEG images can be switched manually

Setting parental lock

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

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

Setting the code number and level

A code number must be registered in order to play back discs with parental lock.

1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Parental on the Video Setup menu.

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

- To cancel the entered numbers, touch **C**.

4 Registering the code.



Registering the code.

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

5 Touch 1 to 8 to select the desired level.

6 Touch Enter.

The parental lock level is set.

- **8** – Playback of the entire disc is possible (initial setting)
- **7 to 2** – Playback of discs for children and non-adult-oriented discs is possible
- **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 stored on the disc. Look for the level indication written on 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 stored on the disc.
- With some discs, the parental lock may be active only for certain levels of scenes. The playback of those scenes will be skipped. For details, refer to the instruction manual that came with the disc.

Changing the level

You can change the set parental lock level.

1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Parental on the Video Setup menu.


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

4 Registering the code.



Registering the code.

This sets the code number, and the level can now be changed.

- If you enter an incorrect code number, the  icon is displayed. Touch **C** and enter the correct code number.
- If you forget your code number, refer to *If you forget your code number* on this page.

5 Touch 1 to 8 to select the desired level.

6 Touch Enter.

The new parental lock level is set.

If you forget your code number

Press **RESET**.

Setting the DivX subtitle file

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

- The DivX subtitles will be displayed even when **Custom** is selected if no DivX external subtitle files exist.

1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 40.

Menu operations

2 Touch DivX Subtitle on the Video Setup menu to select the desired subtitle setting.

- **Original** – Display the DivX subtitles
- **Custom** – Display the DivX external subtitles

Notes

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

Displaying the DivX® VOD registration code

In order to play DivX VOD (video on demand) contents on this unit, the unit must first be registered with a DivX VOD contents provider. For registration, generate a DivX VOD registration code and submit it to your provider.

- Keep a record of the code as you will need it when you register your unit to the DivX VOD provider.

1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch DivX VOD on the Video Setup menu.

Registration Code and **Deregistration Code** appear.

3 Touch Registration Code.

Your registration code is displayed.

Displaying the deregistration code

If your device is already activated, deregister it by entering the deregistration code.

1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch DivX VOD on the Video Setup menu.

3 Touch Deregistration Code.

- To cancel deregistration, touch **Cancel**.

4 Touch OK.

The deregistration is complete.

Setting for digital output

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

1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Digital Output on the Video setup menu to select the desired digital output setting.

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

Automatic playback of DVDs


When a DVD disc with a DVD menu is inserted, this unit will cancel the 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.

1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch DVD Auto Play to turn automatic playback on.

- To turn automatic playback off, touch **DVD Auto Play** again. 

System settings

Switching the auxiliary setting

Activate this setting when using an auxiliary device connected to this unit.

1 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch AUX Input on the system menu to turn AUX Input on or off.

Setting AV input

Activate this setting when using an external video component connected to this unit.

1 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch AV Input on the system menu to turn AV Input on or off.

Setting the rear output and subwoofer controller

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

- When the DEQ-P6600 multi-channel processor is connected to this unit, you cannot operate this function.

1 Turn the unit off.

Refer to *Basic operations of this unit* on page 10.

2 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

3 Touch Rear Speaker on the system menu to switch the subwoofer output or full-range speaker.

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

Notes

- Even if you change this setting, there will be no output unless you turn the subwoofer output on (refer to *Using subwoofer output* on page 42).
- If you change this setting, subwoofer output in the audio menu will return to the factory settings.
- Both rear speaker lead outputs and RCA rear output are switched simultaneously in this setting.

Setting the FM tuning step

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

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

1 Turn the unit off.

Refer to *Basic operations of this unit* on page 10.

2 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

3 Touch FM Step on the system menu to select the FM tuning step.

Touching **FM Step** will switch the FM tuning step between 50 kHz and 100 kHz. The selected FM tuning step will appear.

Menu operations

RDS setting

Limiting stations to regional programming

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

1 Turn the unit off.

Refer to *Basic operations of this unit* on page 10.

2 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

3 Touch RDS Setup on the system menu.

4 Touch Regional on the menu to turn the regional function on.

- To turn the regional function off, touch **Regional** again.

Selecting alternative frequencies

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

1 Turn the unit off.

Refer to *Basic operations of this unit* on page 10.

2 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

3 Touch RDS Setup on the system menu.

4 Touch Alternative FREQ to turn AF on or off.

Note

Sound may be temporarily interrupted by another program during an AF frequency search.

Switching Auto PI Seek

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

1 Turn the unit off.

Refer to *Basic operations of this unit* on page 10.

2 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

3 Touch Auto PI on the system menu to turn Auto PI Seek on.

- To turn Auto PI Seek off, touch **Auto PI** again.

Switching sound muting/attenuation

Sound from this system is automatically muted or attenuated when a signal from equipment with a mute function is received.

- Sound from this system returns to normal when the muting or attenuation is canceled.

1 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Mute/ATT until the desired setting appears.

Touch **Mute/ATT** 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** – Turns the sound muting/attenuation off

Notes

- When **Mute** is displayed, the sound is turned off and no audio adjustments can be made.
- When **ATT** is displayed, the sound is attenuated and only the volume can be adjusted. (No other audio adjustments can be made.)
- Operation returns to normal when the phone connection is ended.

Selecting the menu language

The menu language can be selected from four languages.

If text information such as the title name, artist name or a comment is embedded in a European language or Russian, they can also be displayed on this unit.

- The language can be changed for the following:
 - System menu
 - Video Setup menu
 - On-screen display
 - Multi language setting for DivX
- If the embedded language and the selected language setting are not the same, text information may not display properly.
- Some characters may not be displayed properly.
- To complete this operation, switch the ignition key off and on after you set this setting.

1 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch System Language on the system menu to select the desired language.

3 Touch the desired language.

Русский (Russian)—**English** (English)—**Français** (French)—**Español** (Spanish)

Clearing Bluetooth memory

Important

Never turn the unit off while the Bluetooth memory is being cleared.

1 Turn the unit off.

Refer to *Basic operations of this unit* on page 10.

2 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

3 Touch Bluetooth Memory Clear on the system menu.

4 Touch Clear.

After selecting a desired item, a confirmation display appears. Touch **OK** to delete the memory.

- If you do not want to clear the memory, touch **Cancel**.

Updating Bluetooth connection software

This function is used to update this unit with the latest software. For information on the software and updating, refer to our website.

Important

Never turn the unit off and never disconnect the phone while the software is being updated.

1 Turn the unit off.

Refer to *Basic operations of this unit* on page 10.

2 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

3 Touch Bluetooth Software Update.

4 Touch Start to display the data transfer mode.

- Follow the on-screen instructions to finish updating the software.

Displaying the Bluetooth system version

If this unit fails to operate properly, you may need to consult your dealer for repair. In such cases, you may be asked to specify the system version. Perform the following procedure to check the version on this unit.

1 Turn the unit off.

Refer to *Basic operations of this unit* on page 10.

2 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

3 Touch Bluetooth Version Information to display to the version of the Bluetooth module of this unit.

Menu operations

Setting the automatic open function

To prevent the display from hitting the shift lever of an automatic vehicle when it is in the **P** (park) position, or when you do not wish the display to open/close automatically, you can set the automatic open function to manual mode.

1 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Auto Flap to select whether to open/close the display automatically or manually.

Each time you touch **Auto Flap** the setting switches between:

- **On** – The LCD panel will open or close automatically when the ignition switch is turned on or off.
- **Off** – You have to press **OPEN/CLOSE** to open/close the LCD panel.

Adjusting the LCD panel slide position

You can adjust the LCD panel slide position so that the panel is set back or forward.

1 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Flap Set Back.

3 Touching the Flap Set Back keys allows you to move the LCD panel back and forth.



The LCD panel slides to the back.



The LCD panel slides to the front.

Adjusting the LCD panel angle



Important

- If you can hear the LCD panel knocking against your vehicle's console or dashboard, touch and hold **OPEN/CLOSE** to temporarily level the LCD panel.
- When adjusting the LCD panel angle, be sure to touch and hold **OPEN/CLOSE**. Forcibly adjusting the LCD panel by hand may damage it.

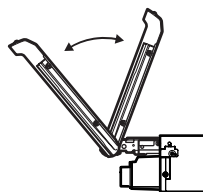


1 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Display Tilt.

3 Touch the Display Tilt keys to adjust the LCD panel to an easily viewable angle.



Laying the panel down.



Returning the panel to the upright position.

- As the set angle is saved, the LCD panel will automatically be adjusted to the same position the next time the LCD panel is opened.

Switching the warning tone

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

1 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch DT.WARNING to turn the warning tone on.

- To turn the warning tone off, touch **DT.WARNING** again.

Setting the rear view camera (back up camera)

CAUTION

Pioneer recommends the use of a camera which outputs mirror-reversed images.

Otherwise, the screen image will appear reversed.

This unit features a function that automatically switches to the rear view camera video (**REAR VIEW CAMERA IN**) when a rear view camera is installed on your car and the gear shift is moved to the **REVERSE (R)** position. (For more details, consult your dealer.)

- After you set up the rear view camera setting, move the gear shift to **REVERSE (R)** and confirm that the rear view camera video is shown on the display.
- Change this setting if the display switches to the rear view camera video by error while you are driving forward.
- To stop watching the rear view camera video and return to the source display, press and hold **MUTE/⏏**.
- Touch the **RearView** source icon to display the rear view camera image while driving. Touch the source icon again to turn the rear view camera off. For details, refer to *Selecting a source using the touch panel keys* on page 10.

1 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Camera Polarity on the system menu to select the appropriate setting.

- **Battery** – When the polarity of the connected lead is positive while the gear shift is in **REVERSE (R)** position
- **Ground** – When the polarity of the connected lead is negative while the gear shift is in **REVERSE (R)** position
- **Off** – When a rear view camera is not connected to this unit

Selecting the video format

You can switch the video output format of **REAR MONITOR OUTPUT** between NTSC and PAL.

1 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Video Output Format on the system menu to select the video output format.

NTSC—PAL

Note

You can switch the video output format only for the source from this unit.

Menu operations

Setting the video signal

When you connect this unit to an AV equipment to this unit, select the suitable video signal setting.

- As this function is initially set to **Auto**, the unit will automatically adjust the video signal setting.
However, the screen may turn black or images may not be displayed properly when **Auto** has been selected and the reception is weak. Normally, select the appropriate TV signal.
- About your country TV signal, consult with your nearest Pioneer dealer.
- You can operate this function only for the video signal input into the AV input.

1 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Video Signal Setting on the function menu.

Video Signal Setting items are displayed.

- AV** – Adjusts the AV video signal
- AUX** – Adjusts the AUX video signal
- Camera** – Adjusts the camera video signal
- TV** – Adjusts the TV video signal

3 Touch ◀ or ▶ to select the desired video signal appears.

Auto—**PAL**—**NTSC**—**PAL-M**—**PAL-N**—**SECAM**

Selecting the area group

1 Select the TV source.

Refer to *Basic operations of this unit* on page 10.

2 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

3 Touch TV Country Group on the function menu.

4 Touch ◀ or ▶ until the desired area group appears.

Country1 (CCIR channel)—**Country2** (Italy channel)—**Country3** (U.K. channel)—**Country4** (OIRT channel)

Auto EQ (auto-equalizing)

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

WARNING

As a loud tone (noise) may be emitted from the speakers when measuring the car's interior acoustic characteristics, never perform auto TA or auto EQ while driving.

CAUTION

- Thoroughly check the conditions before performing auto EQ as the speakers may be damaged if these functions are performed when:
 - The speakers are incorrectly connected. (For example, when a rear speaker is connected as a subwoofer output.)
 - 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 battery drainage. Be sure to place the microphone in the specified location.

Before operating the auto EQ function

- Carry out auto 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 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 EQ using the optional microphone. Using another microphone may prevent measurement, or result in incorrect measurement of the car interior acoustic characteristics.
- In order to perform auto EQ, the front speaker must be connected.
- When this unit is connected to a power amp with input level control, auto EQ may not be possible if the power amp's input level is set below the standard level.
- When this unit is connected to a power amp with an LPF, turn this LPF off before performing auto EQ. Also set the cut-off frequency for the built-in LPF of an active subwoofer to the highest frequency.
- 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.
 - The reflected sound within the car is strong and delays occur.
 - The LPF on active subwoofers or external amps delay the lower sounds.
- Auto EQ changes the audio settings as follows:
 - The fader/balance settings return to the center position. (Refer to *Using fader/balance adjustment* on page 41.)
 - The equalizer curve switches to **Flat**. (Refer to *Recalling equalizer curves* on page 41.)
 - The front, center and rear speakers will automatically be adjusted to a high pass filter setting.
- Previous settings for auto EQ will be overwritten.

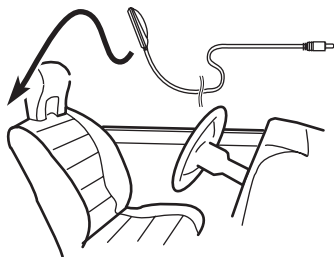
Performing auto EQ

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

If the engine is left running, engine noise may prevent correct auto EQ.

- 2 Fix the optional microphone in the center of the headrest of the driver's seat, facing forward.**

The auto EQ may differ depending on where you place the microphone. If desired, place the microphone on the front passenger seat to carry out auto EQ.



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

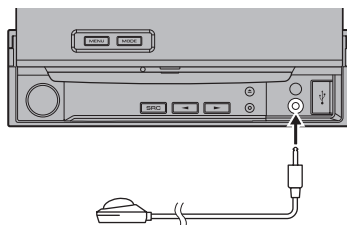
If the car's air conditioner or heater is turned on, turn it off. Noise from the fan in the air conditioner or heater may prevent correct auto EQ.

- 4 Display the system menu.**

Refer to *Introduction of menu operations* on page 40.

- 5 Touch Auto EQ Measurement to enter auto EQ measurement mode.**

- 6 Plug the microphone into the microphone input jack on this unit.**



- 7 Touch Start to start auto EQ.**

Menu operations

8 When the 10-second countdown starts, get out of the car and close the door within 10 seconds.

A measurement tone (noise) is emitted from the speakers, and auto EQ measurement begins.

When auto EQ is completed, **Complete** is displayed.

When the car's interior acoustic characteristics cannot be measured correctly, an error message will be displayed. (Refer to *Understanding auto EQ/auto TA and EQ error messages* on page 90.)

- It takes about nine minutes for auto EQ measurement to be completed when all the speakers are connected.
- To stop auto EQ, touch **Stop**.
- To cancel auto EQ measurement mode during this procedure, touch the following touch panel key.



Canceling auto EQ measurement mode.

9 Store the microphone carefully in the glove compartment or another safe place.

If the microphone is subjected to direct sunlight for an extended period, high temperatures may cause distortion, color change or malfunction.

Correcting distorted sound

When listening to a CD or other source on which the recording level is high, setting the level of each frequency to high may result in distortion. You can switch the digital attenuator to low to reduce distortion.

- Sound quality is better at the high setting so this setting is usually used.

1 Display the system menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Digital ATT.

3 Touch Digital ATT on the system menu to select the digital attenuator level.

High—Low

Resetting the audio functions

You can reset all audio functions.

1 Display the system menu.

Refer to *Introduction of menu operations* on page 40.


2 Touch Audio Reset.

3 Touch Reset .

Ready to reset. Are you sure? appears in the display.

- To cancel this function on the way, touch **Cancel**.

4 Touch Reset again.

The reset end was carried out. appears in the display and audio functions are reset. 

Entertainment settings

Selecting the illumination color

This unit is equipped with multiple-color illumination.

Direct selection from preset illumination colors

You can select an illumination color from the color list.

1 Display the entertainment menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Appearance.

3 Touch Illumination and then touch a color on the list.

Customizing the illumination color

1 Display the entertainment menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Appearance.

3 Touch Illumination and then touch Custom.

4 Display the customizing menu.



Displaying the customizing menu.

5 Touch the color bar to customize the color.

6 Touch ◀ or ▶ to fine-tune the color.

7 Touch the icon and hold to store the customized color in the memory.



Storing the customized color in the memory.

The customized color has been stored in the memory.

The set color will be recalled from the memory the next time you touch the same icon.

Selecting the OSD color

The OSD color can be changed.

1 Display the entertainment menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Appearance.

3 Touch Screen.

4 Touch one of the colors on the list.

Selecting the background display


You can switch the background that is displayed when listening to a source.

1 Display the entertainment menu.

Refer to *Introduction of menu operations* on page 40.

2 Touch Background.

3 Touch the desired setting.

- If no JPEG images are stored in this unit, you cannot select photo. To store a JPEG image to this unit, refer to *Capture an image in JPEG files* on page 33. 

Menu operations

Customizing menus

1 Display menu columns to register.

Refer to *Introduction of menu operations* on page 40.

You can customize menus except

Video Setup menu.

2 Touch and hold the menu column to register it.

- To cancel registration, touch and hold the menu column again.

3 Display the custom menu and choose a registered menu.

Refer to *Introduction of menu operations* on page 40.

Notes

- You can register up to 12 columns.
- If you register a column from the Audio function menu, the registration will be cancelled when a DEQ-P6600 multi-channel processor is connected.
- If you register a column from the DSP menu, the registration will be canceled when the DEQ-P6600 multi-channel processor is disconnected.

Changing the picture adjustment

You can adjust the **Brightness** (brightness), **Contrast** (contrast), **Color** (color), **Hue** (hue), **Dimmer** (dimmer), **Temperature** (temperature), **Black Level** (black level) and **RGB Dot Adjustment** (RGB dot clock adjustment) for each source and rear view camera.

- You cannot adjust **Color**, **Hue**, **Black Level** and **RGB Dot Adjustment** for the audio source.

1 Press and hold MENU to display Picture Adjustment.

The adjustment function names are displayed.

2 If you are adjusting the Picture Adjustment, select the unit.

NAVI

Adjusting the **Picture Adjustment** for the Navigation system.

Rear View

Adjusting the **Picture Adjustment** for the rear view camera.

Source

Adjusting the **Picture Adjustment** for the source.

3 Touch any of the following touch panel keys to select the function to be adjusted. **Picture Adjustment** items are displayed.

- Brightness** – Adjusts the black intensity
- Contrast** – Adjusts the contrast
- Color** – Adjusts the color saturation
- Hue** – Adjusts the tone of color (red or green is emphasized)
- Dimmer** – Adjusts the brightness of the display
- Temperature** – Adjusts the color temperature, resulting in a better white balance
- Black Level** – Emphasizes the dark portions of images making the difference between bright and dark more distinct

- RGB Dot Adjustment** – Adjusts phase shifting by dot clock when a Navigation system is connected
 - You cannot adjust the picture adjustment for the rear view camera when **Camera Polarity** is set to **Off**. (Refer to *Setting the rear view camera (back up camera)* on page 62.)
 - You can adjust **Hue** only when the color system is set to NTSC.
 - With some rear view cameras, picture adjustment may not be possible.

4 Touch ◀ or ▶ to adjust the selected item.


Each time you touch ◀ or ▶, the level of the selected item increases or decreases.

- Dimmer** can be adjusted from **+1** to **+48**.
- Temperature** can be adjusted from **+3** to **-3**.

5 Touch Black Level and RGB Dot Adjustment to adjust.

- Black Level** can be set on or off.
- RGB Dot Adjustment** can be set to **1** or **2**.

Notes


- You cannot operate this function while driving.
- Different **Brightness/Contrast/Dimmer** settings can be set for when the illumination switch is on and when it is off. 

Setting rear monitor output

The output source for the rear monitor can be switched to the following:

- Front** – The source on the front screen of this unit
 - Disc** – The video and sound from the DVD
 - AV** – The video and sound from AV input
 - AUX** – The source for AUX input
 - Off** – No source

Notes

- You cannot play DivX files on the rear and front monitors at the same time.
- If **Disc** is set to rear monitor output, you cannot select MW/LW band for the front monitor. 

Other Functions

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.

- Touch the screen gently for adjustment. Forcefully pressing the touch panel may damage the touch panel. Do not use a sharp pointed tool such as a ballpoint pen or mechanical pen. Doing so may damage the screen.
- If the touch panel cannot be adjusted properly, consult your local Pioneer dealer.

1 Turn the unit off.

Refer to *Basic operations of this unit* on page 10.

2 Press and hold MENU to display Picture Adjustment.

3 Press and hold MENU to start Touch Panel Calibration.

The 4-point touch panel adjustment screen appears.

4 Touch each of the arrows on the four corners of the screen.

- To cancel the adjustment, press and hold **MENU**.

5 Press MENU to complete 4-point adjustment.

Data for the adjusted position is saved.

- Do not turn off the engine while the data is being saved.

6 Press MENU to proceed to 16-point adjustment.

The 16-point touch panel adjustment screen appears.

- To cancel the adjustment, press and hold **MENU**.

7 Gently touch the center of the + mark displayed on the screen.

After you touch all the marks, the data for the adjusted position is saved.

- Do not turn off the engine while the data is being saved.

8 Press and hold MENU to complete the adjustment.

Using an AUX source

A separately sold auxiliary device such as a VCR or portable device can be connected to this unit. When connected, the auxiliary device is automatically recognized as an AUX source and is assigned to **AUX**.

About AUX connection methods

You can connect auxiliary devices to this unit.

Mini pin plug cable (AUX)


When connecting an auxiliary device using a mini plug cable

iPods and portable audio/video players can be connected to this unit via mini plug cable.

- If an iPod with video capabilities is connected to this unit via 3.5 mm plug (4 pole) cable (such as the CD-V150M), you can enjoy the video contents of the connected iPod.
- A portable audio/video player can be connected by using a 3.5 mm plug (4 pole) with an RCA cable (sold separately). However, depending on the cable, a reverse connection between the red (right side audio) cable and yellow (video) cable may be required in order for the sound and video image to be reproduced correctly.

- **Insert the stereo mini plug into the AUX input jack on this unit.**

Refer to *Installation* on the next page.

Refer to *What's what* on page 9. 

Using an external unit

An external unit refers to a Pioneer product, such as those which will be available in the future. Although incompatible as a source, the basic functions of up to two external units can be controlled with this unit. When two external units are connected, the external units are automatically allocated to external unit 1 or external unit 2.

The basic operations of the external unit are explained below. The allocated functions will differ depending on the connected external unit. For details concerning these functions, refer to the owner's manual for the external unit.

Basic operations

The functions allocated to the following operations will differ depending on the connected external unit. For details concerning these functions, refer to the owner's manual for the connected external unit.



Switching to auto or manual.



Switching to video and audio.



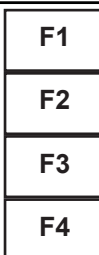
Changing the screen mode.
Refer to *Changing the wide screen mode* on page 34.



Switching the equalizer curves.
Refer to *Using the equalizer* on page 41.
Touch and hold for more than two seconds to turn the auto-equalizer on or off.
Refer to *Using the auto-equalizer* on page 42.



Actions will differ depending on the connected external unit.



Function 1 to 4
Actions will differ depending on the connected external unit.



Using the functions allocated to 1 to 6 keys.
Actions will differ depending on the connected external unit.



Installation

Connecting the units

! WARNING

- To avoid the risk of accident and the potential violation of applicable laws, no viewing of front seat video should ever occur while the vehicle is being driven. Also, rear displays should not be in a location where they are visibly distracting to the driver.
- In some countries or states the viewing of images on a display inside a vehicle even by persons other than the driver may be illegal. Where such regulations apply, they must be obeyed and this unit's DVD features should not be used.

! CAUTION

- PIONEER does not recommend that you install or service your display unit yourself. Installing or servicing the product may expose you to risk of electric shock or other hazards. Refer all installation and servicing of your display unit to authorized Pioneer service personnel.
- Secure all wiring with cable clamps or electrical tape. Do not allow any bare wiring to remain exposed.
- Do not drill a hole into the engine compartment to connect the yellow cable of the display unit to the vehicle battery. Engine vibration may eventually cause the insulation to fail at the point where the wire passes from the passenger compartment into the engine compartment. Take extra care in securing the wire at this point.
- It is extremely dangerous to allow the microphone lead to become wound around the steering column or gearstick. Be sure to install the unit in such a way that it will not obstruct driving.
- Make sure that cables will not interfere with moving parts of the vehicle, such as the gearshift, parking brake or seat sliding mechanism.
- Do not shorten any cables. If you do, the protection circuit may fail to work properly.

! 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.**

🔧 Important

- This unit cannot be installed in a vehicle without ACC (accessory) position on the ignition switch.



ACC position



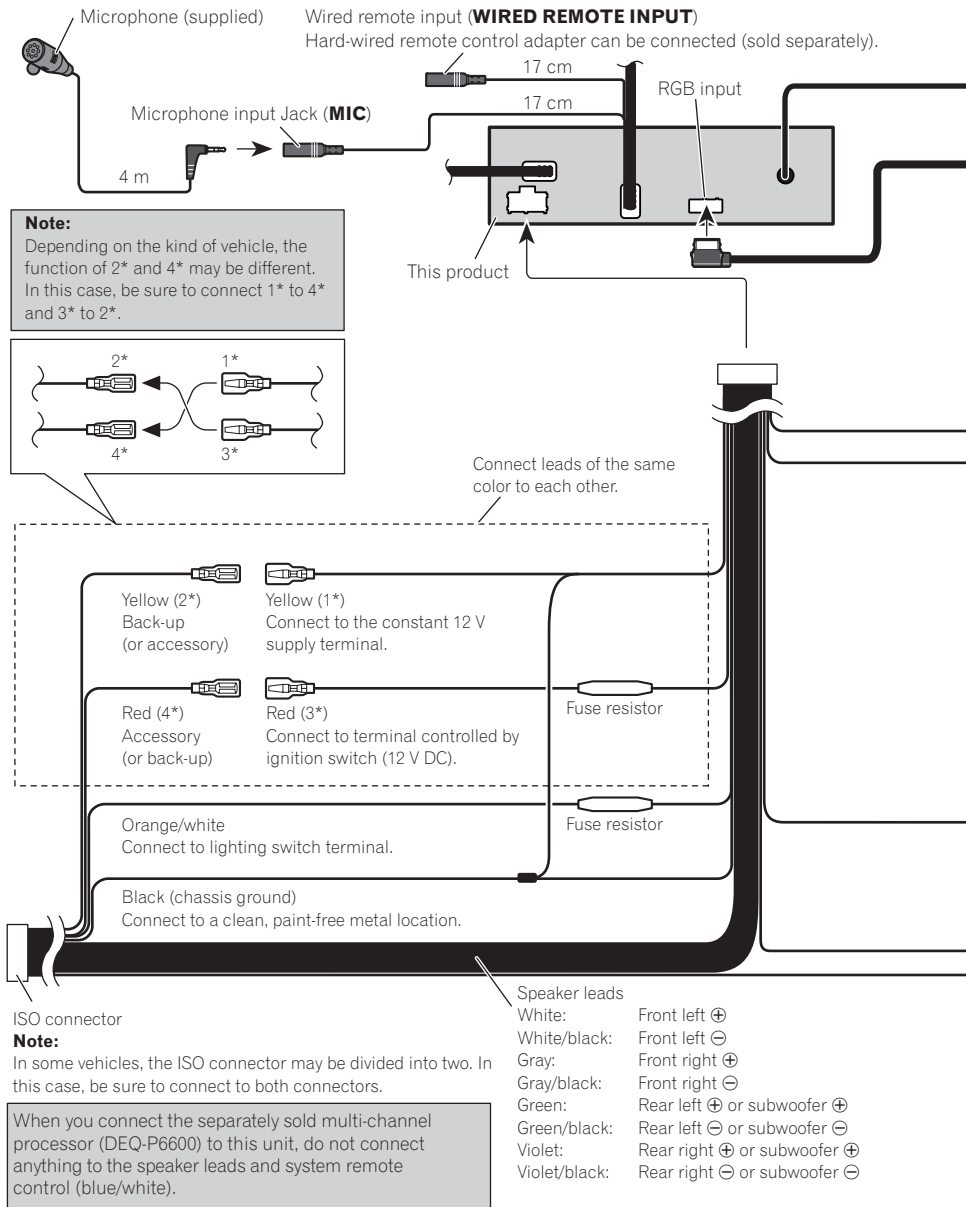
No ACC position

- Use of this unit in conditions other than the following could result in fire or malfunction.
 - Vehicles with a 12-volt battery and negative grounding.
 - Speakers with 50 W (output value) and 4 ohm to 8 ohm (impedance value).
- To prevent a short-circuit, overheating or malfunction, be sure to follow the directions below.
 - Disconnect the negative terminal of the battery before installation.
 - Secure the wiring with cable clamps or adhesive tape. Wrap adhesive tape around wiring that comes into contact with metal parts to protect the wiring.
 - Place all cables away from moving parts, such as the gear shift and seat rails.
 - Place all cables away from hot places, such as near the heater outlet.
 - Do not connect the yellow cable to the battery by passing it through the hole to the engine compartment.
 - Cover any disconnected cable connectors with insulating tape.
 - Do not shorten any cables.

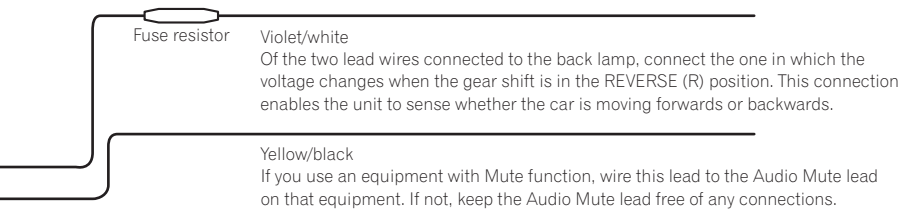
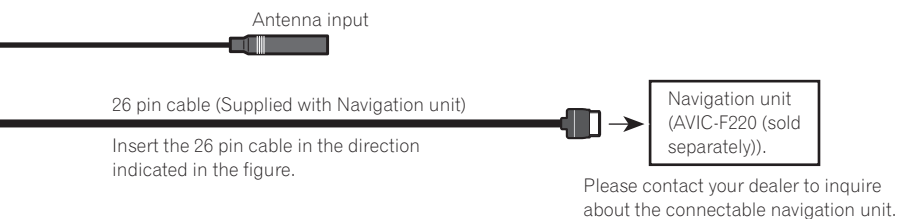
- Never cut the insulation of the power cable of this unit in order to share the power with other devices. The current capacity of the cable is limited.
- Use a fuse of the rating prescribed.
- Never wire the negative speaker cable directly to ground.
- Never band together negative cables of multiple speakers.
- When this unit is on, control signals are sent through the blue/white cable. Connect this cable to the system remote control of an external power amp or the vehicle's auto-antenna relay control terminal (max. 300 mA 12 V DC). If the vehicle is equipped with a glass antenna, connect it to the antenna booster power supply terminal.
- Never connect the blue/white cable to the power terminal of an external power amp. Also, never connect it to the power terminal of the auto antenna. Doing so may result in battery drain or a malfunction.
- The black cable is ground. Ground cables for this unit and other equipment (especially, high-current products such as power amps) must be wired separately. If they are not, an accidental detachment may result in a fire or malfunction.

Installation

Connecting the power cord



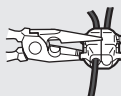
Installation



Connection method



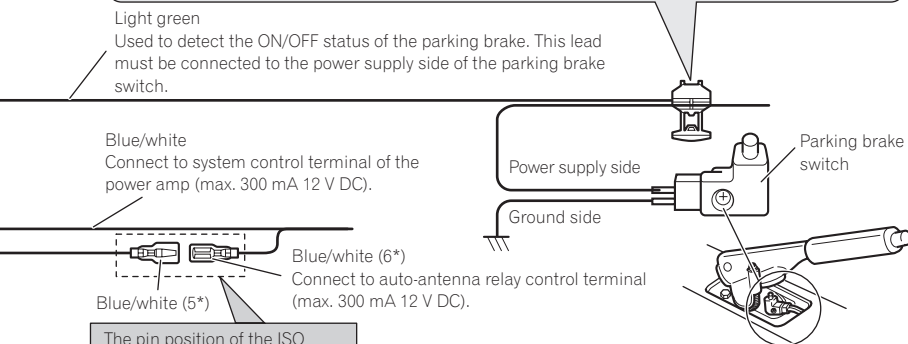
1. Clamp the lead.



2. Clamp firmly with needle-nosed pliers.

Note:

- The position of the parking brake switch depends on the vehicle model. For details, consult the vehicle Owner's Manual or dealer.

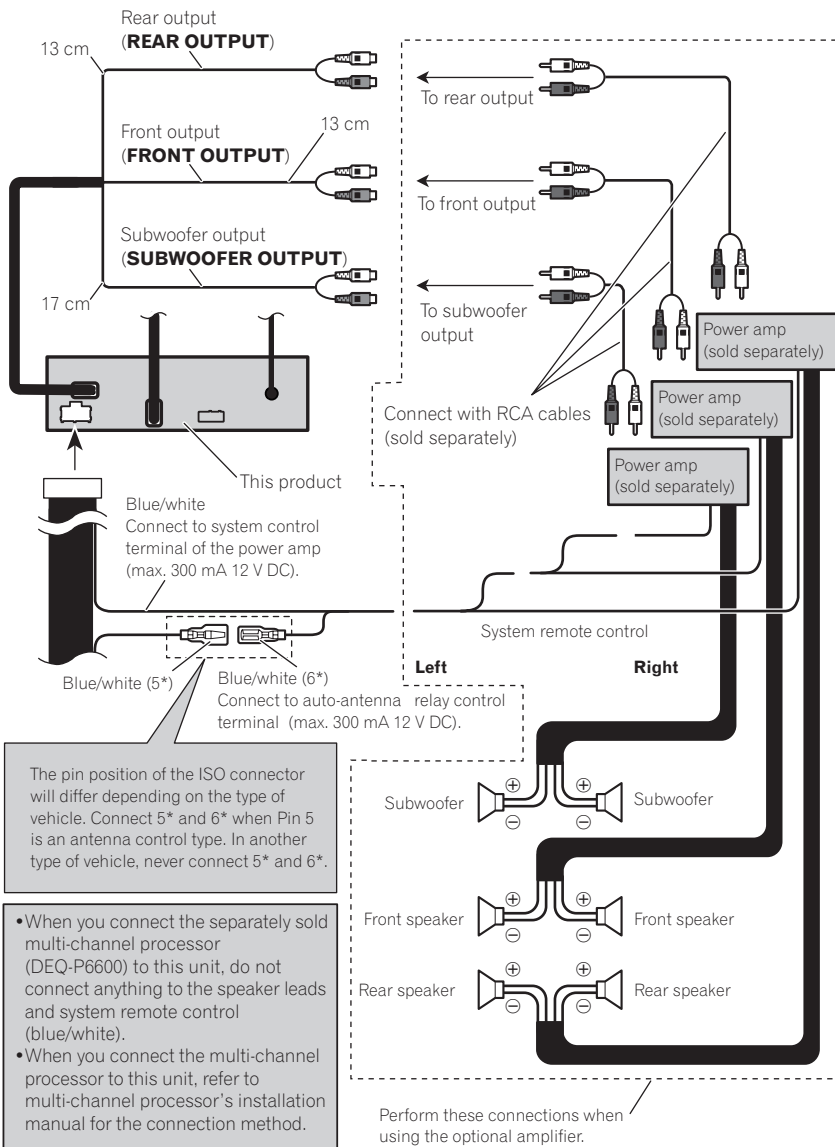


The pin position of the ISO connector will differ depending on the type of vehicle. Connect 5* and 6* when Pin 5 is an antenna control type. In another type of vehicle, never connect 5* and 6*.

Notes:

- Change the initial setting of this unit. The subwoofer output of this unit is monaural.
- When using a subwoofer of 70 W ($2\ \Omega$), be sure to connect with Violet and Violet/black leads of this unit. Do not connect anything to Green and Green/black leads.

When connecting to separately sold power amp



The pin position of the ISO connector will differ depending on the type of vehicle. Connect 5* and 6* when Pin 5 is an antenna control type. In another type of vehicle, never connect 5* and 6*.

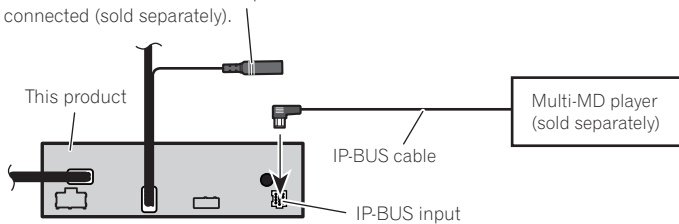
- When you connect the separately sold multi-channel processor (DEQ-P6600) to this unit, do not connect anything to the speaker leads and system remote control (blue/white).
- When you connect the multi-channel processor to this unit, refer to multi-channel processor's installation manual for the connection method.

Installation

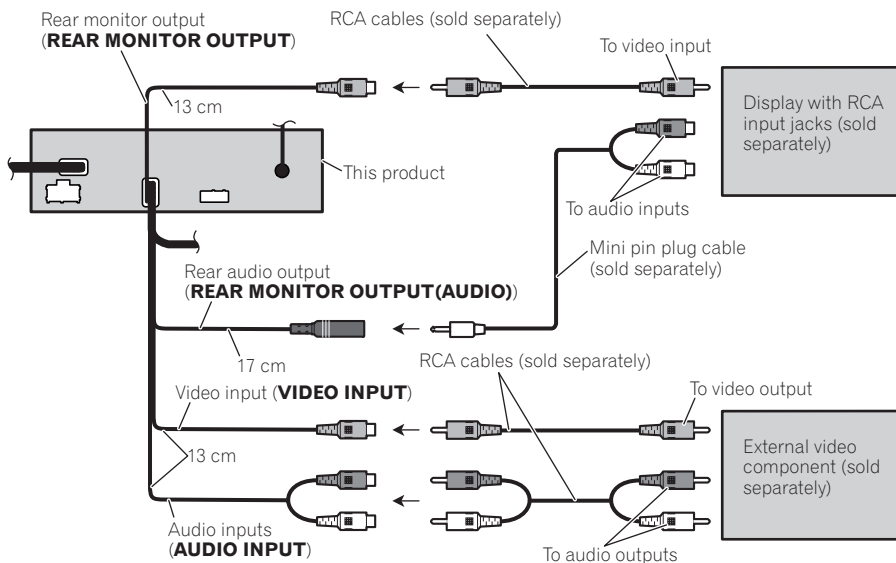
Connecting the system

Wired remote input (**WIRED REMOTE INPUT**)

Hard-wired remote control adapter can be connected (sold separately).



When connecting the external video component and the display



- It is necessary to change **AV Input** in **System Menu** when connecting the external video component.

When using a display connected to rear video output

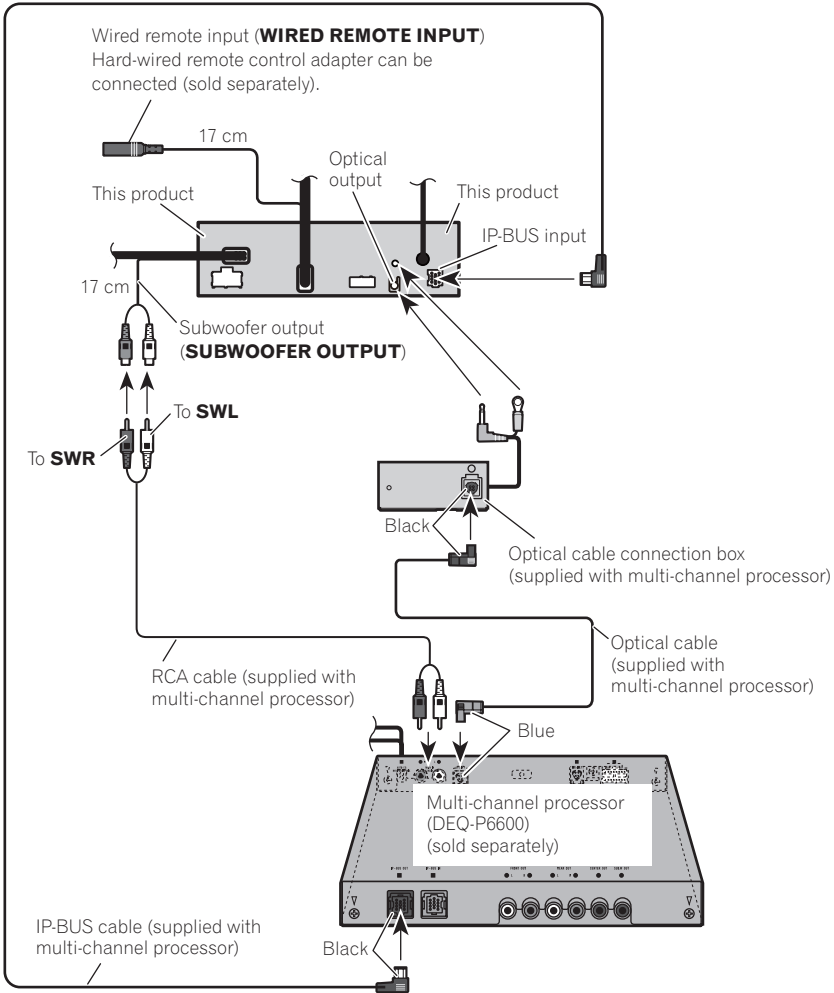
This product's rear video output and rear audio output are for connection of a display to enable passengers in the rear seats to watch the DVD, etc.

! WARNING

- Never install the display in a location where it is visible to the driver while driving.

Installation

When connecting with a multi-channel processor



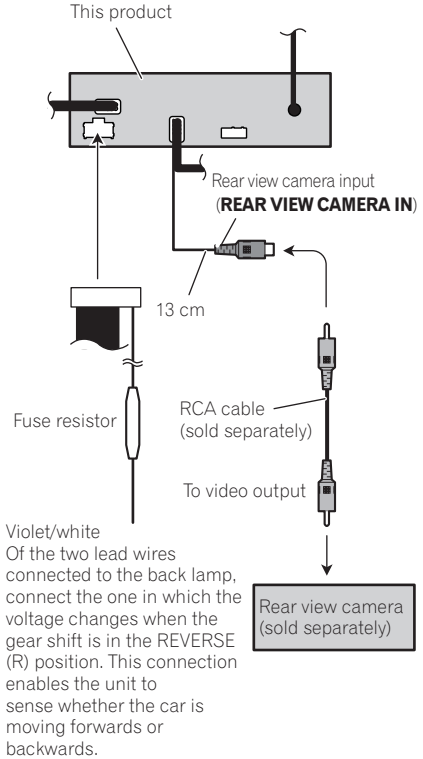
When connecting with a rear view camera

When this product is used with a rear view camera, it is possible to automatically switch from the video to rear view image when the gear shift is moved to REVERSE (R).

⚠ WARNING
USE INPUT ONLY FOR REVERSE OR MIRROR IMAGE REAR VIEW CAMERA. OTHER USE MAY RESULT IN INJURY OR DAMAGE.

⚠ CAUTION

- The screen image may appear reversed.
- The rear view camera function is to be used as an aid to keep an eye on trailers, or while backing up. Do not use for entertainment purposes.
- Objects in the rear view may appear closer or more distant than they actually are.



⚠ CAUTION

You must use a camera which outputs mirror reversed images.

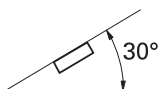
It is necessary to set **Camera Polarity** properly in **System Menu** when connecting the rear view camera. □

Installation

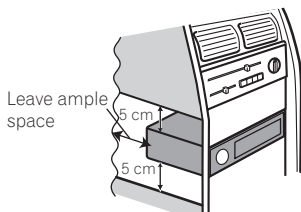
Installation

Notes

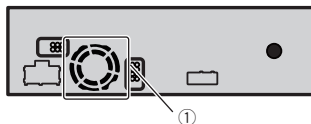
- Check all connections and systems before final installation.
- Do not use unauthorized parts as this may cause malfunctions.
- Consult your dealer if installation requires drilling of holes or other modifications to the vehicle.
- Do not install this unit where:
 - it may interfere with operation of the vehicle.
 - it may cause injury to a passenger as a result of a sudden stop.
- 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.
- The semiconductor laser will be damaged if it overheats. Install this unit away from hot places such as near the heater outlet.
- Optimum performance is obtained when the unit is installed at an angle of less than 30°.



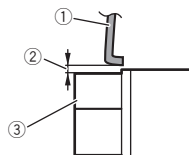
- To ensure proper heat dispersal when using this unit, make sure you leave ample space behind the rear panel and wrap any loose cables so they are not blocking the vents when installing the unit.



- The cords must not cover up the area shown in the figure below. This is necessary to allow the amplifiers to radiate freely.



- ① Do not cover this area.
- Make sure you leave enough gap between the dashboard and the LCD panel of this unit so the LCD panel can be opened and closed without contacting with the dashboard.



- ① Dashboard
- ② Leave gap
- ③ LCD panel

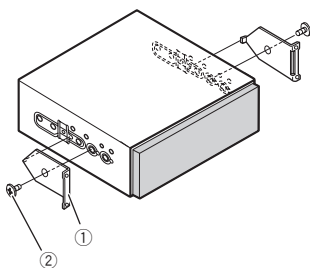
DIN front/rear-mount

This unit can be properly installed using either front-mount or rear-mount installation. Use commercially available parts when installing.

DIN Front-mount

1 Decide the position of the side brackets.

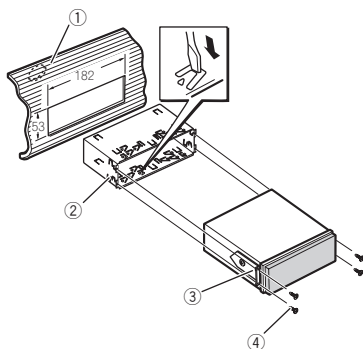
When installing in a shallow space, change the position of side brackets (small).



- ① Side bracket (small)
- ② Flush surface screw (5 mm × 6 mm)

2 Install the unit into the dashboard.

Insert the mounting sleeve into the dashboard. And then secure the mounting sleeve by using a screwdriver to bend the metal tabs (90°) into place.

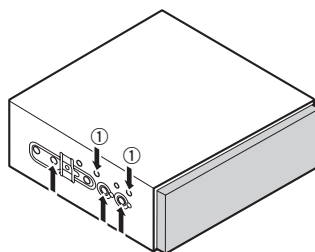


- ① Dashboard
- ② Mounting sleeve
- ③ Side bracket
- ④ Screw (2 mm × 3 mm)

DIN Rear-mount

1 Determine the appropriate position where the holes on the bracket and the side of the unit match.

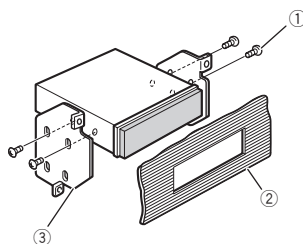
When installing in a shallow space, use the following screw holes.



- ① Use binding screws (4 mm × 3 mm) only.

2 Tighten two screws on each side.

Use any of binding screws (4 mm × 3 mm), binding screws (5 mm × 6 mm) or flush surface screws (5 mm × 6 mm), depending on the shape of screw holes in the bracket.



- ① Screw
- ② Dashboard or console
- ③ Factory radio mounting bracket

Note

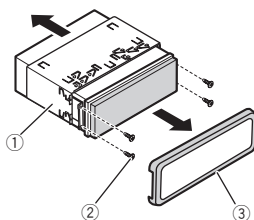
In some types of vehicles, discrepancy may occur between the unit and the dashboard. If this happens, use the supplied frame to fill the gap.

Removing the unit

Extend top and bottom of the trim ring outwards to remove the trim ring. And then loosen the screws (2 mm × 3 mm) to remove the mounting sleeve.

- When reattaching the trim ring, push the trim ring onto the unit until it clicks. (If the trim ring is attached upside down, the trim ring will not fit properly.)

Installation



- ① Mounting sleeve
- ② Screw (2 mm × 3 mm)
- ③ Trim ring

Installing the microphone

⚠ CAUTION

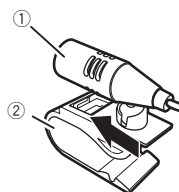
It is extremely dangerous to allow the microphone lead to become wound around the steering column or gearstick. Be sure to install the unit in such a way that it will not obstruct driving.

Note

Install the microphone in a position and orientation that will enable it to pick up the voice of the person operating the system.

When installing the microphone on the sun visor

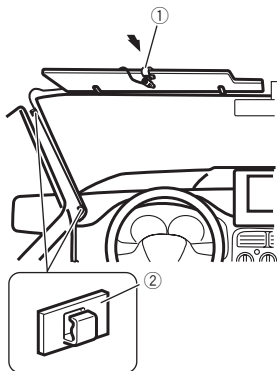
1 Install the microphone on the microphone clip.



- ① Microphone
- ② Microphone clip

2 Install the microphone clip on the sun visor.

With the sun visor up, install the microphone clip. (Lowering the sun visor reduces the voice recognition rate.)

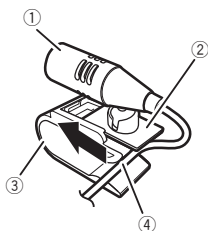


- ① Microphone clip
- ② Clamp

Use separately sold clamps to secure the lead where necessary inside the vehicle.

When installing the microphone on the steering column

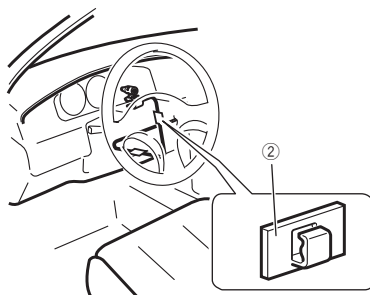
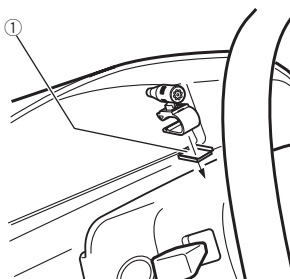
1 Install the microphone on the microphone clip.



- ① Microphone
- ② Microphone base
- ③ Microphone clip
- ④ Fit the microphone lead into the groove.

■ Microphone can be installed without using microphone clip. In this case, detach the microphone base from the microphone clip. To detach the microphone base from the microphone clip, slide the microphone base.

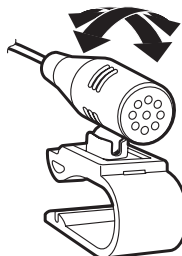
2 Install the microphone clip on the rear side of the steering column.



- ① Double-sided tape
- ② Clamp

Use separately sold clamps to secure the lead where necessary inside the vehicle.

Adjusting the microphone angle




The microphone angle can be adjusted. ■

Additional Information

Troubleshooting

Common

Symptom	Cause	Action (Reference page)
The power will not turn on. The unit will not operate.	Leads and connectors are incorrectly connected.	Confirm once more that all connections are correct.
	The fuse is blown.	Rectify the cause and then replace the fuse. Be sure to install a fuse with the same rating.
	Noise and/or other factors are causing the built-in microprocessor to operate incorrectly.	Press RESET . (Page 9)
Operation with the remote control is not possible. The unit does not operate correctly even when the appropriate remote control buttons are pressed.	Battery power is low.	Load a new battery.
	Some operations are prohibited with certain discs.	Try operating with another disc.
Playback is not possible.	The disc is dirty.	Clean the disc.
	The type of disc loaded cannot be played on this unit.	Check the disc type.
	The disc loaded is not compatible with this video system.	Change the disc to one that is compatible with your video system.
There is no sound. The volume level will not rise.	Cables are not connected correctly.	Connect the cables correctly.
	The unit is performing still, slow motion or frame-by-frame playback.	There is no sound during still, slow motion or frame-by-frame playback.

Symptom	Cause	Action (Reference page)
There is no image displayed.	The parking brake cable is not connected.	Connect the parking brake cable, and apply the parking brake.
	The parking brake is not applied.	Connect the parking brake cable, and apply the parking brake.
The  icon is displayed, and operation is not possible.	The operation is prohibited for the disc.	This operation is not possible.
	The operation is not compatible with the configuration of the disc.	This operation is not possible.
The image displayed stops (pauses) and the unit cannot be operated.	The data could no longer be read during playback.	Stop playback once, and start playback again.
There is no sound. The volume level is low.	The volume level is low.	Adjust the volume level.
	The attenuator is on.	Turn the attenuator off.
The sound and video skip.	The unit is not firmly secured.	Firmly secure the unit.
	File size and transmission rate are above recommended rates.	Create a DivX file that is within the recommended size and transmission rate.
The aspect ratio is incorrect and the image is stretched.	The aspect ratio setting is incorrect for the display.	Select the appropriate setting for your display. (Page 55)
The motor sounds when the ignition switch is turned ON (or is turned to ACC).	The unit is confirming whether or not a disc is loaded.	This is a normal operation.

Additional Information

Symptom	Cause	Action (Reference page)
Nothing is displayed. The touch panel keys cannot be used.	The rear view camera is not connected. Camera Polarity is at incorrect setting.	Connect a rear view camera. Press and hold MENU to return to the source display and then select the correct setting for Camera Polarity . (Page 62)
No xxxx appears when a display is changed (No Title , for example).	There is no embedded text information.	Switch the display or play another track/file.
Sub-folders cannot be played back.	Folder repeat play has been selected.	Select the repeat range again.
The repeat range changes automatically.	Another folder was selected during repeat play. Track search or fast forward/reverse was performed during file repeat play.	Select the repeat range again. Select the repeat range again.

DVD

Symptom	Cause	Action (Reference page)
Playback is not possible.	The loaded disc has a different region number from this unit.	Replace the disc with one featuring the same region number as this unit.
A parental lock message is displayed and playback is not possible.	Parental lock is activated.	Turn parental lock off or change the level. (Page 55)
Parental lock cannot be canceled.	The code number is incorrect. You have forgotten your code number.	Enter the correct code number. (Page 55) Press RESET . (Page 56)

Symptom	Cause	Action (Reference page)
Dialog language (and subtitle language) cannot be switched.	The DVD being played does not feature multiple language recordings. You can only switch between items indicated in the disc menu.	The language cannot be switched if they are not recorded on the disc. Switch the language using the disc menu.
No subtitles are displayed.	The DVD being played does not feature subtitles. You can only switch between items indicated in the disc menu.	Subtitles are not displayed if they are not recorded on the disc. Switch the language using the disc menu.
Playback is not performed with the audio language and subtitle language settings selected in Video Setup menu.	The DVD being played does not feature dialog or subtitles in the selected language.	The language cannot be switched if the selected language is not recorded on the disc.
The viewing angle cannot be switched.	The DVD being played does not feature scenes shot from multiple angles. You are trying to switch to multi-angle viewing for a scene that was not recorded from multiple angles.	The viewing angle cannot be switched if the DVD does not feature scenes recorded from multiple angles. Switch between multiple angles when watching scenes recorded from multiple angles.

Additional Information

Symptom	Cause	Action (Reference page)
The image is extremely unclear/distorted and dark during playback.	Some discs feature a signal to prohibit copying.	Since this unit is compatible with the analog copy generation management system, when playing a disc that has a signal prohibiting copying, horizontal stripes or other imperfections may appear when viewed on some displays. This is not a malfunction.

Video CD

Symptom	Cause	Action
The PBC (playback control) menu cannot be called up.	The Video CD being played does not feature PBC.	This operation is not available for Video CDs that do not feature PBC.
Repeat play and track/time search are not possible.	The Video CD being played features PBC.	This operation is not available for Video CDs that feature PBC.

iPod

Symptom	Cause	Action
The iPod does not operate correctly.	The cables are incorrectly connected.	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
	The iPod version is old.	Update the iPod version.

Multi-channel processor

Symptom	Cause	Action (Reference page)
There is no sound. The volume level will not rise.	The optical cables are not connected correctly.	Connect the cables correctly.

Symptom	Cause	Action (Reference page)
Audio output is 2-channel audio even though multi-channel audio is selected.	The digital output setting is set to Linear PCM .	Normally, set the digital output setting to Stream . (Page 57)

Error messages

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

Tuner

Message	Cause	Action
No Data	This unit cannot receive program service name information.	Move to the desirable location with good reception.

DVD

Message	Cause	Action
Different Region Disc	The disc does not have the same region number as this unit.	Replace the DVD with one bearing the correct region number.
Error-02-XX/FF-FF	The disc is dirty.	Clean the disc.
	The disc is scratched.	Replace the disc.
	The disc is loaded upside down.	Check that the disc is loaded correctly.
	There is an electrical or mechanical error.	Press RESET .
Unplayable Disc	This type of disc cannot be played on this unit.	Replace the disc with one that can be played on this unit.
	The inserted disc does not contain any playable files.	Replace the disc.

Additional Information

Message	Cause	Action
Protect	All the files on the inserted disc are embedded with DRM.	Replace the disc.
Skipped	The inserted disc contains DRM protected files.	Play an audio file not embedded with Windows Media DRM 9/10.
TEMP	The temperature of the unit is outside the normal operating range.	Wait until the unit returns to a temperature within the normal operating limits.
Rental Expired.	The inserted disc contains expired DivX VOD content.	Select a file that can be played.
Video resolution not supported	The inserted disc contains a high definition DivX file.	Select a file that can be played.
It is not possible to write it in the flash.	Flash memory error.	Replace the flash memory.
Your device is not authorized to play this DivX protected video.	This unit's DivX registration code has not been authorized by the DivX VOD contents provider.	Register this unit to the DivX VOD contents provider.
Unplayable File	This type of file cannot be played on this unit.	Select a file that can be played.
Format Read	Sometimes there is a delay between the start of playback and when you start to hear any sound.	Wait until the message disappears and you hear sound.
Video frame rate not supported.	DivX file's frame rate is more than 30 fps.	Select a file that can be played.
Audio format not supported.	This type of file is not supported on this unit.	Select a file that can be played.

External storage device (USB, SD)

Message	Cause	Action
Unplayable File	This type of file cannot be played on this unit.	Select a file that can be played.
	There are no songs.	Transfer the audio files to the external storage device and connect.
	Security for the connected USB memory is enabled.	Follow the USB memory instructions to disable security.
Format Read	Sometimes there is a delay between the start of playback and when you start to hear any sound.	Wait until the message disappears and you hear sound.
Skipped	The connected external storage device contains WMA files that are protected by Windows Media™ DRM 9/10.	Play an audio file not embedded with Windows Media DRM 9/10.
Protect	All the files on the connected external storage device is protected by Windows Media DRM 9/10.	Transfer audio files not protected by Windows Media DRM 9/10 to the external storage device and connect.
Incompatible USB	The USB device connected to is not supported by this unit.	Connect a USB portable audio player or USB memory that is USB Mass Storage Class compliant.
	The USB device is not formatted with FAT16 or FAT32.	The connected USB device should be formatted with FAT16 or FAT32.
Incompatible SD	Unsupported SD card is inserted.	Use the supported SD card.
	Non-compatible SD storage device	Remove your device and replace it with a compatible SD storage device.

Additional Information

Message	Cause	Action
Check USB	The USB connector or USB cable has short-circuited.	Check that the USB connector or USB cable is not caught in something or damaged.
	The connected USB portable audio player/USB memory consumes more than maximum allowable current.	Disconnect the USB portable audio player/USB memory and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB portable audio player/USB memory.
Error-02-9X/-DX	Communication failed.	Perform one of the following operations. –Turn the ignition switch OFF and back ON. –Disconnect the USB portable audio player/USB memory. –Change to a different source. Then, return to the USB portable audio player/USB memory.
Rental Expired.	The inserted external storage device contains expired DivX VOD content.	Select a file that can be played.
Video resolution not supported	The inserted external storage device contains a high definition DivX file.	Select a file that can be played.
It is not possible to write it in the flash.	Flash memory error.	Replace the flash memory.
Your device is not authorized to play this DivX protected video.	This unit's DivX registration code has not been authorized by the DivX VOD contents provider.	Register this unit to the DivX VOD contents provider.

Message	Cause	Action
Format Read	Sometimes there is a delay between the start of playback and when you start to hear any sound.	Wait until the message disappears and you hear sound.
Video frame rate not supported.	DivX file's frame rate is more than 30 fps.	Select a file that can be played.
Audio format not supported.	This type of file is not supported on this unit.	Select a file that can be played.

iPod

Message	Cause	Action
Format Read/Ready	Sometimes there is a delay between the start of playback and when you start to hear any sound.	Wait until the message disappears and you hear sound.
Error-02-6X/-9X/-DX	Communication failed.	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
	iPod failure.	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
Error-02-67	The iPod firmware version is old.	Update the iPod version.
Stop	There are no songs.	Transfer songs to the iPod.
	There are no songs in the current list.	Select a list that contains songs.
Not Found	No related songs.	Transfer songs to the iPod.

Additional Information

Bluetooth

Message	Cause	Action
Error-10	The power failed for the Bluetooth module of this unit.	Turn the ignition switch OFF and then to ACC or ON. If the error message is still displayed after performing the above action, please contact your dealer or an authorized Pioneer Service Station.



Understanding auto EQ/ auto TA and EQ error messages

When correct measurement of the car's interior acoustic characteristics is not possible using auto TA and EQ, an error message may appear on the display. In such cases, refer to the table below to see what the problem is and how it may be corrected. After checking, try again.

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

Message	Cause	Action
Error. Please check noise.	The surrounding noise level is too high.	<ul style="list-style-type: none"> • Stop your car in a place that is quiet, and switch off the engine, air conditioner and heater. • Set the microphone correctly.
Error. Please check battery.	Power is not being supplied from the battery to this unit.	<ul style="list-style-type: none"> • Connect the battery correctly. • Check the battery voltage.



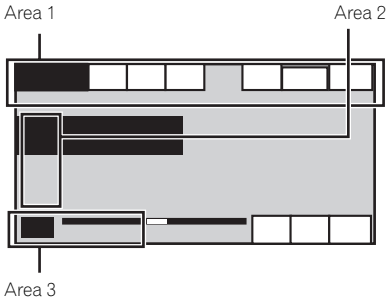
Understanding messages

Messages	Translation
Screen image may appear reversed.	Pioneer recommends the use of a camera which outputs mirror-reversed images. Otherwise, the screen image will appear reversed.



Additional Information

Indicator list



Area 1



Indicates that the selected frequency is being broadcast in stereo.



Indicates that a radio text has been received.



Indicates that TA (traffic announcement standby) is on.



Indicates that the news program interruption is on.



Indicates that a Bluetooth telephone is connected.



Indicates that the digital format is Dolby Digital.



Indicates that the digital format is MPEG Audio.



Indicates that the digital format is Linear PCM.



Indicates the sampling frequency.



Indicates that the digital format is DTS.

1 ch

2 ch

Mch

Indicates the audio channel.

PBCOn

Indicates that a disc with PBC On is being played.

Dolby PLII

Indicates that Dolby Pro Logic II is on.

Indicates that a cellular phone is connected.



- Indicates that an incoming call has been received and has not been checked yet.
- Not displayed for calls made when your cellular phone is disconnected from this unit.

- Indicates the battery strength of the cellular phone.
- The level shown on the indicator may differ from the actual battery strength.
- If the battery strength is not available, nothing is displayed in the battery strength indicator area.



Indicates the signal strength of the cellular phone.

Auto EQ

Indicates that Auto EQ is on.



Shows which audio language has been selected.



Shows which subtitle language has been selected.



Shows which viewing angle has been selected.



Shows which audio output has been selected.

Additional Information

Area 2



Shows the disc/album currently being played.



Shows the track/song currently being played.



Shows the comment currently being played.



Shows the artist name for the track/song currently being played.



Shows cellular phone information.



Shows general phone information.



Shows home phone information.



Shows office phone information.



Shows other phone information.



Shows the name of the folder currently being played.



Shows the name of the file currently being played.



Shows the preset number of the station currently being tuned in to.



Shows the channel currently being tuned in to.



Shows the genre of the track/song currently being played.

DEMO

Indicates that the feature demo is on.



Area 3



Shows the title number currently being played.



Shows the chapter number currently being played.

Additional Information

Handling guidelines

Discs and player

Use only discs featuring any of following logos.



Use 12-cm discs. Do not use 8-cm discs or an adapter for 8-cm discs.

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



Do not insert anything other than a DVD (-R/-RW) or CD (-R/-RW) into the disc loading slot.

Do not use cracked, chipped, warped, or otherwise damaged discs as they may damage the player.

Unfinalized CD-R/CD-RW discs cannot be played back.

Do not touch the recorded surface of the discs.

Store discs in their cases when not in use.

Do not attach labels, write on or apply chemicals to the surface of the discs.

To clean a disc, wipe the disc with a soft cloth outward from the center.

Condensation may temporarily impair the player's performance. Let it rest for about one hour to adjust to a warmer temperature. Also, wipe any damp discs off with a soft cloth.

Playback of discs may not be possible because of disc characteristics, disc format, recorded application, playback environment, storage conditions, and so on.

Road shocks may interrupt disc playback.

Read the precautions for discs before using them.

Certain functions may not be available for some DVD video discs.

It may not be possible to play back some DVD video discs.

It is not possible to play back DVD-RAM discs.

This unit is not compatible with discs recorded in AVCHD (Advanced Video Codec High Definition) format. Do not insert AVCHD discs as you may not be able to eject the disc.

External storage device (USB, SD)

Depending on the external storage device (USB, SD), the following problems may occur.

- Operations may vary.
- The storage device may not be recognized.
- Files may not be played back properly.

USB storage device

Connections via USB hub are not supported.

Do not connect anything other than a USB storage device.

Firmly secure the USB storage device when driving. Do not let the USB storage device fall onto the floor, where it may become jammed under the brake or accelerator pedal.

Depending on the USB storage device, the device may cause noise to occur in the radio.

Copyright protected files that are stored in the USB devices cannot be played back.

You cannot connect a USB portable audio player/USB memory to this unit via USB hub.

Partitioned USB memory is not compatible with this unit.

Depending on the kind of USB portable audio player/USB memory you use, the device may not be recognized or audio files may not be played back properly.

Do not leave the USB portable audio player/USB memory in direct sunlight for extended amounts of time. Doing so may cause the device to malfunction from the extreme rise in temperature.

Additional Information

SD memory card

This unit supports only the following types of SD memory cards.

- SD
- SDHC

Keep the SD memory card out of the reach of children. Should the SD memory card be swallowed, consult a doctor immediately.

Do not touch the connectors of the SD memory card directly with your fingers or with any metal device.

Do not insert anything other than an SD memory card into the SD card slot. If a metal object (such as a coin) is inserted into the slot, the internal circuits may break and cause malfunctions.

Do not insert a damaged SD memory card (e.g. warped, label peeled off) as it may not be ejected from the slot.

Do not try to force an SD memory card into the SD card slot as the card or this unit may be damaged.

When ejecting an SD memory card, press it and hold it until it clicks. It is dangerous for you to release your finger immediately after you press on the card as the card may shoot out of the slot and hit you in the face, etc. If the card shoots out of the slot, it may become lost.

iPod

To ensure proper operation, connect the dock connector cable from the iPod directly to this unit.

Firmly secure the iPod when driving. Do not let the iPod fall onto the floor, where it may become jammed under the brake or accelerator pedal.

About iPod settings

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

Incompatible text saved on the iPod will not be displayed by the unit.

DVD-R/DVD-RW discs

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

Playback of DVD-R/DVD-RW discs may not be possible, due to disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc. on the lens of this unit.

Depending on the application settings and the environment, playback of discs recorded on a personal computer may not be possible. (For details, contact the manufacturer of the application.)

CD-R/CD-RW discs

When CD-R/CD-RW discs are used, playback is possible only for discs which have been finalized.

Playback of CD-R/CD-RW discs recorded on a music CD recorder or a personal computer may not be possible due to disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc., on the lens of this unit.

Depending on the application settings and the environment, playback of discs recorded on a personal computer may not be possible. (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)).

DualDiscs

DualDiscs 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 DualDiscs 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 DualDisc may result in scratches on the disc. Serious scratches can lead to playback problems on this unit. In some cases, a DualDisc may become stuck in the disc loading slot and will not eject. To prevent this, we recommend you refrain from using DualDisc with this unit. Please refer to the information from the disc manufacturer for more detailed information about DualDiscs.

Additional Information

JPEG picture files

JPEG is short for Joint Photographic Experts Group and refers to a still image compression technology standard.

Files are compatible with Baseline JPEG and EXIF 2.1 still images up to a resolution of 8 192 × 7 680. (EXIF format is used most commonly with digital still cameras.)

Playback of EXIF format files that were processed by a personal computer may not be possible.

There is no progressive JPEG compatibility.

DivX video files

Depending on the composition of the file information, such as the number of audio streams or file size, there may be a slight delay when playing back discs.

Some special operations may be prohibited due to the composition of the DivX files.

Only DivX files downloaded from a DivX partner site are guarantee for proper operation. Unauthorized DivX files may not operate properly.


DRM rental files cannot be operated until playback is started.

Recommended file size: 2 Mbps or less with a transmission rate of 2 GB or less.

The ID code of this unit must be registered to a DivX VOD provider in order to playback DivX VOD files. For information on ID codes, refer to *Displaying the DivX® VOD registration code* on page 57.

For more details about DivX, visit the following site: <http://www.divx.com/>

Important

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

Compressed audio compatibility (disc, USB, SD)

WMA

File extension: .wma

Bit rate: 5 kbps to 320 kbps (CBR), VBR

Sampling frequency: 8 kHz to 48 kHz

Windows Media Audio Professional, Lossless, Voice/DRM Stream/Stream with video: Not compatible

MP3

File extension: .mp3

Bit rate: 8 kbps to 320 kbps

Sampling frequency: 8 kHz to 48 kHz (32 kHz, 44.1 kHz, 48 kHz for emphasis)

Compatible ID3 tag version: 1.0, 1.1, 2.2, 2.3 (ID3 tag Version 2.x is given priority over Version 1.x.)

M3u playlist: Not compatible

MP3i (MP3 interactive), mp3 PRO: Not compatible

AAC

Compatible format: AAC encoded by iTunes

File extension: .m4a

Sampling frequency: 8 kHz to 44.1 kHz

Bit rate: 8 kbps to 320 kbps

Apple Lossless: Not compatible

AAC file bought from the iTunes Store (.m4p file extension): Not compatible

DivX compatibility

Compatible format: DivX video format implemented in relation to DivX standards

File extensions: .avi or .divx

DivX Ultra format: Not compatible

DivX HD format: Not compatible

DivX files without video data: Not compatible

DivX plus HD format: Not compatible

Compatible audio codec: MP2, MP3, Dolby Digital

Additional Information

LPCM: Not compatible

Bit rate: 8 kbps to 320 kbps (CBR), VBR

Sampling frequency: 8 kHz to 48 kHz

Compatible external subtitle file extension: .srt

Supplemental information

Some characters in a file name (including the file extension) or a folder name may not be displayed.

This unit may not operate correctly depending on the application used to encode WMA files.

There may be a slight delay at the start of playback of audio files embedded with image data or audio files stored on an external storage device (USB/SD) that has numerous folder hierarchies.

Russian text to be displayed on this unit should be encoded in one of the following character sets:

- Unicode (UTF-8, UTF-16)
- A character set other than Unicode that is used in a Windows environment and is set to Russian in the multi-language setting

Disc

Playable folders: up to 700

Playable files: up to 999 for CD-R/CD-RW

Playable files: up to 3500 for DVD-R/DVD-RW

File system: ISO 9660 Level 1 and 2, Romeo, Joliet, UDF 1.02 (DVD-R/DVD-RW)

Multi-session playback: Compatible

Packet write data transfer: Not compatible

Regardless of the length of blank sections between the songs from the original recording, compressed audio discs play with a short pause between songs.

External storage device (USB, SD)

Playable folders: up to 6 000

Playable files: up to 65 535, up to 255 for one folder

Playback of copyright-protected files: Not compatible


Partitioned external storage device (USB, SD): Only the first playable partition can be played.

There is no compatibility for Multi Media Cards (MMC).

Compatibility with all SD memory cards is not guaranteed.

This unit is not compatible with SD-Audio/SD-Video.

CAUTION

- Pioneer accepts no responsibility for data lost on the USB memory/USB portable audio player/SD memory card even if that data is lost while using this unit.
- Do not leave the discs/external storage device (USB, SD) or iPod in places with high temperatures. 

iPod compatibility

This unit supports only the following iPod models. Supported iPod software versions are shown below. Older versions may not be supported.

- iPhone 4 (software version 4.1)
- iPhone 3GS (software version 4.1)
- iPhone 3G (software version 4.1)
- iPhone (software version 3.1.3)
- iPod nano 6th generation (software version 1.0)
- iPod nano 5th generation (software version 1.0.2)
- iPod nano 4th generation (software version 1.0.4)
- iPod nano 3rd generation (software version 1.1.3)
- iPod nano 2nd generation (software version 1.1.3)
- iPod nano 1st generation (software version 1.3.1)
- iPod touch 4th generation (software version 4.1)
- iPod touch 3rd generation (software version 4.0)
- iPod touch 2nd generation (software version 4.0)
- iPod touch 1st generation (software version 3.1.3)
- iPod classic 160GB (software version 2.0.4)
- iPod classic 120GB (software version 2.0.1)
- iPod classic (software version 1.1.2)
- iPod 5th generation (software version 1.3)

Depending on the generation or version of the iPod, some functions may not be available.

Operations may vary depending on the software version of iPod.

When using an iPod, an iPod Dock Connector to USB Cable is required.


When you use Pioneer CD-IU50V/CD-IU200V interface cable, consult your dealer for details.

About the file/format compatibility, refer to the iPod manuals.

Audio Book, Podcast: Compatible

Additional Information

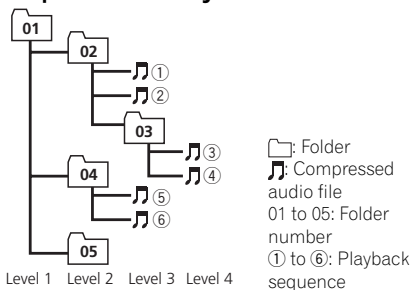
CAUTION

Pioneer accepts no responsibility for data lost on the iPod, even if that data is lost while this unit is used. 

Sequence of audio files

The user cannot assign folder numbers and specify playback sequences with this unit.

Example of a hierarchy



Disc

Folder selection sequence or other operation may differ depending on the encoding or writing software.


External storage device (USB, SD)

The playback sequence is the same as the recorded sequence in the external storage device (USB, SD).

To specify the playback sequence, the following method is recommended.

- ① Create a file name that includes numbers that specify the playback sequence (e.g., 001xxx.mp3 and 099yyy.mp3).
- ② Put those files into a folder.
- ③ Save the folder that contains the files to the external storage device (USB, SD).

However, depending on the system environment, you may not be able to specify the playback sequence.

For USB portable audio players, the sequence is different and depends on the player. 

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 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 electric shock. Be sure to consult your dealer or the nearest authorized PIONEER Service Station for internal inspection, adjustments, or repairs.

Handling the display

- Never touch the screen with anything besides your finger when operating the touch panel function. The screen can scratch easily.
- 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. You should avoid exposing the display unit to direct sunlight as much as possible.
- The display should be used within the temperature range of -10°C to $+60^{\circ}\text{C}$. At temperatures higher or lower than this operating temperature range, the display may not operate normally.
- The LCD screen is exposed in order to increase its visibility within the vehicle. Do not press it strongly on it as this may damage it.
- Do not push the LCD screen forcefully as this may scratch it.

Additional Information


Liquid crystal display (LCD) screen

- 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.
- 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 malfunction.
- When using a cellular phone, keep the antenna away from the display to prevent disruption of the video image by the appearance of spots, colored stripes, etc.

LED (light-emitting diode) backlight

- At low temperatures, using the LED backlight may increase image lag and degrade the image quality due to the characteristics of the LCD screen. Image quality will improve with an increase in temperature.
- To protect the LED backlight, the display will darken in the following environments:
 - In the direct sunlight
 - Near the heater vent
- The product lifetime of the LED backlight is more than 10 000 hours. However, it may decrease if used in high temperatures.
- If the LED backlight reaches the end of its product lifetime, the screen will become dark and the image will no longer be projected. In such cases, please consult your dealer or the nearest authorized PIONEER Service Station.

Keeping the display in good condition

- When removing dust from the screen or cleaning the display, first turn the system power off, then wipe with a soft dry cloth.
- When wiping the screen, take care not to scratch the surface. Do not use harsh or abrasive chemical cleaners. 

Copyright and trademark


This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.

Bluetooth

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- 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 2 000 companies worldwide.

DVD video

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iTunes

Apple and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries.

Additional Information

MP3

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WMA

Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries. This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from Microsoft Licensing, Inc.

SD memory card

SD Logo is a trademark of SD-3C, LLC.
SDHC Logo is a trademark of SD-3C, LLC.

iPod & iPhone

iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

"Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

Dolby Digital

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ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in *Menu operations*. Go to vod.divx.com for more information on how to complete your registration. ■

Additional Information

Language code chart for DVD

Language (code), input code

Japanese (ja), 1001	Dzongkha (dz), 0426	Kurdish (ku), 1121	Kinyarwanda (rw), 1823
English (en), 0514	Ewe (ee), 0505	Komi (kv), 1122	Sanskrit (sa), 1901
French (fr), 0618	Esperanto (eo), 0515	Cornish (kw), 1123	Sardinian (sc), 1903
Spanish (es), 0519	Estonian (et), 0520	Kirghiz, Kyrgyz (ky), 1125	Sindhi (sd), 1904
German (de), 0405	Basque (eu), 0521	Latin (la), 1201	Northern Sami (se), 1905
Italian (it), 0920	Persian (fa), 0601	Luxembourghish (lb), 1202	Sangho (sg), 1907
Chinese (zh), 2608	Fulah (ff), 0606	Ganda (lg), 1207	Sinhala (si), 1909
Dutch, Flemish (nl), 1412	Finnish (fi), 0609	Limburgan (li), 1209	Slovak (sk), 1911
Portuguese (pt), 1620	Fijian (fj), 0610	Lingala (ln), 1214	Slovenian (sl), 1912
Swedish (sv), 1922	Faroese (fo), 0615	Lao (lo), 1215	Samoan (sm), 1913
Russian (ru), 1821	Western Frisian (fy), 0625	Lithuanian (lt), 1220	Shona (sn), 1914
Korean (ko), 1115	Irish (ga), 0701	Luba-Katanga (lu), 1221	Somali (so), 1915
Greek (el), 0512	Gaelic (gd), 0704	Latvian (lv), 1222	Albanian (sq), 1917
Afar (aa), 0101	Galician (gl), 0712	Malagasy (mg), 1307	Serbian (sr), 1918
Abkhazian (ab), 0102	Guarani (gn), 0714	Marshallese (mh), 1308	Swati (ss), 1919
Avestan (ae), 0105	Gujarati (gu), 0721	Maori (mi), 1309	Sotho, Southern (st), 1920
Afrikaans (af), 0106	Manx (gv), 0722	Macedonian (mk), 1311	Sundanese (su), 1921
Akan (ak), 0111	Hausa (ha), 0801	Malayalam (ml), 1312	Swahili (sw), 1923
Amharic (am), 0113	Hebrew (he), 0805	Mongolian (mn), 1314	Tamil (ta), 2001
Aragonese (an), 0114	Hindi (hi), 0809	Marathi (mr), 1318	Telugu (te), 2005
Arabic (ar), 0118	Hiri Motu (ho), 0815	Malay (ms), 1319	Tajik (tg), 2007
Assamese (as), 0119	Croatian (hr), 0818	Maltese (mt), 1320	Thai (th), 2008
Avaric (av), 0122	Haitian (ht), 0820	Burmese (my), 1325	Tigrinya (ti), 2009
Aymara (ay), 0125	Hungarian (hu), 0821	Nauru (na), 1401	Turkmen (tk), 2011
Azerbaijani (az), 0126	Armenian (hy), 0825	Bokmal (nb), 1402	Tagalog (tl), 2012
Bashkir (ba), 0201	Herero (hz), 0826	Ndebele, North (nd), 1404	Tswana (tn), 2014
Belarusian (be), 0205	Interlingua (ia), 0901	Nepali (ne), 1405	Tonga (to), 2015
Bulgarian (bg), 0207	Indonesian (id), 0904	Ndonga (ng), 1407	Turkish (tr), 2018
Bihari (bh), 0208	Interlingue (ie), 0905	Nynorsk (nn), 1414	Tsonga (ts), 2019
Bislama (bi), 0209	Igbo (ig), 0907	Norwegian (no), 1415	Tatar (tt), 2020
Bambara (bm), 0213	Sichuan Yi (ii), 0909	Ndebele, South (nr), 1418	Twi (tw), 2023
Bengali (bn), 0214	Inupiaq (ik), 0911	Navajo, Navaho (nv), 1422	Tahitian (ty), 2025
Tibetan (bo), 0215	Ido (io), 0915	Chichewa (ny), 1425	Uighur, Uygghur (ug), 2107
Breton (br), 0218	Icelandic (is), 0919	Occitan (oc), 1503	Ukrainian (uk), 2111
Bosnian (bs), 0219	Inuktitut (iu), 0921	Ojibwa (oj), 1510	Urdu (ur), 2118
Catalan (ca), 0301	Javanese (jv), 1022	Oromo (om), 1513	Uzbek (uz), 2126
Chechen (ce), 0305	Georgian (ka), 1101	Oriya (or), 1518	Venda (ve), 2205
Chamorro (ch), 0308	Kongo (kg), 1107	Ossetian (os), 1519	Vietnamese (vi), 2209
Corsican (co), 0315	Kikuyu, Gikuyu (ki), 1109	Panjabi, Punjabi (pa), 1601	Volapük (vo), 2215
Cree (cr), 0318	Kuanyama (kj), 1110	Pali (pi), 1609	Walloon (wa), 2301
Czech (cs), 0319	Kazakh (kk), 1111	Polish (pl), 1612	Wolof (wo), 2315
Church Slavonic (cu), 0321	Kalaallisut (kl), 1112	Pashto, Pushto (ps), 1619	Xhosa (xh), 2408
Chuvash (cv), 0322	Central Khmer (km), 1113	Quechua (qu), 1721	Yiddish (yi), 2509
Welsh (cy), 0325	Kannada (kn), 1114	Romansh (rm), 1813	Yoruba (yo), 2515
Danish (da), 0401	Kanuri (kr), 1118	Rundi (rn), 1814	Zhuang, Chuang (za), 2601
Divehi (dv), 0422	Kashmiri (ks), 1119	Romanian (ro), 1815	Zulu (zu), 2621



Additional Information

Specifications

General

Rated power source	14.4 V DC (allowable voltage range: 12.0 V to 14.4 V DC)
Grounding system	Negative type
Maximum current consumption	10.0 A
Dimensions (W × H × D): DIN	
Chassis	180 mm × 50 mm × 160 mm
Nose	188 mm × 58 mm × 32 mm
D	
Chassis	178 mm × 50 mm × 165 mm
Nose	170 mm × 46 mm × 27 mm
Weight	2.2 kg

Display

Screen size/aspect ratio	7.0 inch wide/16:9 (effective display area: 154.0 mm × 86.9 mm)
Pixels	345 600 (1 440 × 240)
Display method	TFT active matrix, driving type
Color system	PAL/SECAM compatible
Durable temperature range (power off)	-20 °C to +80 °C
Angle adjustment	50° to 110° (initial settings: 90°)

Audio

Maximum power output	50 W × 4 70 W × 1/2 Ω (for subwoofer)
Continuous power output	22 W × 4 (1 kHz, 5% THD, 4 Ω load, both channels driven)
Load impedance	4 Ω (4 Ω to 8 Ω (2 Ω for 1 ch) allowable)
Preout maximum output level	4.0 V
Equalizer (8-Band Graphic Equalizer):	
Frequency	40 Hz/80 Hz/200 Hz/400 Hz/ 1 kHz/2.5 kHz/8 kHz/10 kHz
Gain	± 12 dB
HPF:	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/ 125 Hz
Slope	-12 dB/oct

Subwoofer (mono):	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/ 125 Hz
Slope	-18 dB/oct
Gain	+6 dB to -24 dB
Phase	Normal/Reverse
Bass boost:	
Gain	+12 dB to 0 dB

DVD Player

System	DVD video, Video CD, CD, WMA, MP3, AAC, DivX, JPEG system
Usable discs	DVD video, Video CD, CD, CD-R/RW, DVD-R/RW/R DL
Region number	5
Frequency response	5 Hz to 44 000 Hz (with DVD, at sampling frequency 96 kHz)
Signal-to-noise ratio	96 dB (1 kHz) (IEC-A net- work) (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, 9, 10, 11, 12 (2 ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes en- coded only) (.m4a) (Ver. 9.0.3 and earlier)
DivX decoding format	Home Theater Ver. 3, 4, 5.2, 6 (.avi, .divx)

USB

USB standard specification	USB 1.1, USB 2.0 full speed
Maximum current supply	500 mA
USB Class	MSC (Mass Storage Class)
File system	FAT16, FAT32
MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes en- coded only) (Ver. 9.0.3 and earlier)
DivX decoding format	Home Theater Ver. 3, 4, 5.2, 6 (.avi, .divx)

SD

Compatible physical format	Version 1.1
File system	FAT12, FAT16, FAT32

Additional Information

MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes en- coded only) (Ver. 9.0.3 and earlier)
DivX decoding format	Home Theater Ver. 3, 4, 5.2, 6 (.avi, .divx)

FM tuner

Frequency range	87.5 MHz to 108.0 MHz
Usable sensitivity	9 dBf ($0.8\mu\text{V}/75\Omega$ mono, S/N: 30 dB)
Signal-to-noise ratio	72 dB (IEC-A network)

MW tuner

Frequency range	531 kHz to 1 602 kHz (9 kHz)
Usable sensitivity	$25\mu\text{V}$ (S/N: 20 dB)
Signal-to-noise ratio	62 dB (IEC-A network)

LW tuner

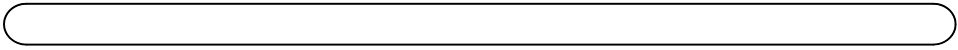
Frequency range	153 kHz to 281 kHz
Usable sensitivity	$28\mu\text{V}$ (S/N: 20 dB)
Signal-to-noise ratio	62 dB (IEC-A network)

Bluetooth

Version	Bluetooth 2.0 certified
Output power	+4 dBm Maximum (Power class 2)

Note

Specifications and the design are subject to mod-
ifications without notice. 



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