

CD RDS RECEIVER  
AUTORADIO CD RDS  
REPRODUCTOR DE CD CON RECEPTOR RDS

**Pioneer**

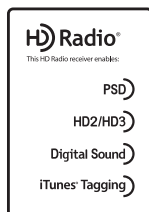
English

Français

Español

# DEH-P9400BH

Owner's Manual  
Mode d'emploi  
Manual de instrucciones



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## Before you start

### 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 **WARNINGS** and **CAUTIONS** in this manual. *Please keep the manual in a safe and accessible place for future reference.*

FCC ID: AJDK045  
MODEL NO.: DEH-P9400BH  
IC: 775E-K045

This device complies with Part 15 of FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

The antenna for Bluetooth cannot be removed (or replaced) by user.

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20 cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

## Information to User

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

### Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Before you start

### The Safety of Your Ears is in Your Hands

Get the most out of your equipment by playing it at a safe level—a level that lets the sound come through clearly without annoying blaring or distortion and, most importantly, without affecting your sensitive hearing. Sound can be deceiving. Over time, your hearing “comfort level” adapts to higher volumes of sound, so what sounds “normal” can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

#### ESTABLISH A SAFE LEVEL:

- Set your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, without distortion.
- Once you have established a comfortable sound level, set the dial and leave it there.

#### BE SURE TO OBSERVE THE FOLLOWING GUIDELINES:

- Do not turn up the volume so high that you can't hear what's around you.
- Use caution or temporarily discontinue use in potentially hazardous situations.
- Do not use headphones while operating a motorized vehicle; the use of headphones may create a traffic hazard and is illegal in many areas.

### About this unit

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



#### WARNING

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

#### CAUTION:

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

**CAUTION: THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.**



#### CAUTION

- Do not allow this unit to come into contact with liquids. Electrical shock could result. Also, damage to this unit, smoke, and 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.



#### Important (Serial number)

The serial number is located on the bottom of this unit. For your own security and convenience, be sure to record this number on the enclosed warranty card.

#### Note

Function setting operations are completed even if the menu is cancelled before the operations are confirmed.

## Before you start

### After-sales service for Pioneer products

Please contact the dealer or distributor from where you purchased this unit for after-sales service (including warranty conditions) or any other information. In case the necessary information is not available, please contact the companies listed below:

Please do not ship your unit to the companies at the addresses listed below for repair without advance contact.

#### U.S.A.

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

#### CANADA

Pioneer Electronics of Canada, Inc.  
CUSTOMER SATISFACTION DEPARTMENT  
340 Ferrier Street  
Unit 2  
Markham, Ontario L3R 2Z5, Canada  
1-877-283-5901  
905-479-4411

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

### In case of trouble

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

### Visit our website

<http://www.pioneerelectronics.com>  
in Canada

<http://www.pioneerelectronics.ca>

- Learn about product updates (such as firmware updates) for your product.
- Register your product to receive notices about product updates and to safeguard purchase details in our files in the event of loss or theft.
- Access owner's manuals, spare parts information, service information, and much more.

### Demo mode

#### 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.
- Remember that if the feature demo continues operating when the car engine is turned off, it may drain battery power.

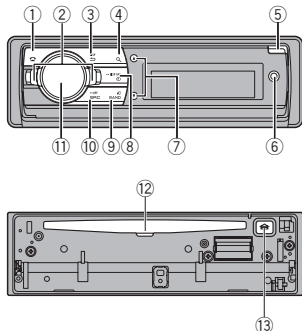
The demo starts automatically if you do not operate this unit within about 30 seconds since it was last operated or if the ignition switch is set to ACC or ON while it is turned off. To cancel the demo mode, press and hold (DISP). Press and hold (DISP) again to start. You can also deactivate demo mode in the initial settings. Select **Demonstration** (*demo display setting*) and turn off the demo display. For details, refer to *Initial settings* on page 14.

### About this manual

- In the following instructions, USB memories and USB audio players are collectively referred to as “USB storage device”.
- In this manual, iPod and iPhone will be referred to as “iPod”.

## Operating this unit

### Head unit



Part	Part
1  (phone/on hook)	8  /DISP OFF
2 LEVER	9 BAND/  (iPod)
3  /DISP	10 SRC/OFF
4  (list)	11 MULTI-CONTROL (M.C.)
5 Open button	12 Disc loading slot
AUX input jack (3.5 mm stereo jack)	13  (eject)
7  /	

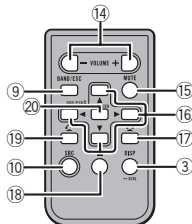
### CAUTION

Use a Pioneer USB cable when connecting the USB audio player/USB memory device as devices connected to the unit directly will protrude out, which is dangerous.

Do not use unauthorized products.

### Remote control

Remote controller buttons marked with the same numbers as on the unit operate in the same way as the corresponding unit button regardless of button name.



Part	Operation
14 VOLUME	Press to increase or decrease volume.
15 MUTE	Press to mute. Press again to unmute.
16	Press to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.
17	While operating the phone, press to end a call or reject an incoming call.
18 II	Press to pause or resume playback.

## Operating this unit

Part	Operation
19	Press to start talking on the phone while operating a phone.
20 LIST/ENTER	Press to display the disc title, track title, folder, or file list depending on the source. While in the operating menu, press to control functions.

### Set up menu

When you turn the ignition switch to ON after installation, set up menu appears on the display. You can set up the menu options below.

**1 After installation of this unit, turn the ignition switch to ON.**  
SET UP appears.

**2 Turn M.C. to switch to YES.**

- If you do not operate for 30 seconds, the set up menu will not be displayed.
- If you prefer not to set up at this time, turn M.C. to switch to **NO**. If you select **NO**, you cannot set up in the set up menu.

**3 Press M.C. to select.**

**4 Perform the following procedures to set the menu.**

To proceed to the next menu option, you need to confirm your selection.

#### Language select (multi-language)

- 1 Turn M.C. to select the desired language.  
English—Français—Español
- 2 Press M.C. to confirm the selection.

#### Calendar (setting the date)

- 1 Turn M.C. to change the year.
- 2 Press M.C. to select day.
- 3 Turn M.C. to change the day.
- 4 Press M.C. to select month.
- 5 Turn M.C. to change the month.
- 6 Press M.C. to confirm the selection.

#### Clock (setting the clock)

- 1 Turn M.C. to adjust hour.
- 2 Press M.C. to select minute.
- 3 Turn M.C. to adjust minute.
- 4 Press M.C. to confirm the selection.

#### Contrast (display contrast setting)

- 1 Turn M.C. to adjust the contrast level.  
0 to 15 is displayed as the level is increased or decreased.
- 2 Press M.C. to confirm the selection.

#### Demonstration (demo display setting)

- 1 Turn M.C. to set the demo display to off.
- 2 Press M.C. to confirm the selection.  
Quit appears.

**5 To finish your settings, turn M.C. to select YES.**

- If you prefer to change your setting again, turn M.C. to switch to **NO**.

**6 Press M.C. to select.**

#### Notes

- Because demonstration mode is the function for displaying at stores, do not use this function while driving.
- You can set up the menu options in the initial settings. For details about the settings, refer to *Initial settings* on page 14.
- You can cancel set up menu by pressing SRC/OFF.

## Operating this unit

### Basic operations

#### 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.
- To avoid damaging the device or vehicle interior, remove any cables and devices attached to the front panel before detaching it.

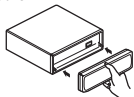
Removing the front panel to protect your unit from theft

The front panel can be detached to deter theft.

- 1 Press the open button to open the front panel.
- 2 Grip the left side of the front panel and pull it gently outward.  
Take care not to grip it too tightly or to drop the front panel and protect it from contact with water or other fluids to prevent permanent damage.
- 3 Always keep the detached front panel in a protection device such as a protection case.

Re-attaching the front panel

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



Turning the unit on

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

Turning the unit off

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

Selecting a source

- 1 Press **SRC/OFF** to cycle between:  
**XM** (XM tuner)—**SIRIUS** (SIRIUS tuner)—**TUNER** (tuner)—**CD** (CD player)—**USB1** (USB storage device1)—**iPod1** (iPod connected using USB input1)—**Pandora1** (Pandora1)—**USB2** (USB storage device2)—**iPod2** (iPod connected using USB input2)—**Pandora2** (Pandora2)—**EXT** (external unit 1)—**EXT** (external unit 2)—**AUX1** (AUX1)—**AUX2** (AUX2)—**BT Audio** (BT audio)

Adjusting the volume

- 1 Turn **M.C.** to adjust the volume.

#### CAUTION

For safety reasons, park your vehicle when removing the front panel.

#### Notes

- When this unit's blue/white lead is connected to the vehicle's auto-antenna relay control terminal, the vehicle's antenna extends when this unit's source is turned on. To retract the antenna, turn the source off.
- When there are two USB storage devices connected to this unit and you want to switch between them for playback, disconnect communications for the USB storage device first before proceeding.
- If connecting both **USB1** (USB storage device1)/**iPod1** (iPod connected using USB input1) and **USB2** (USB storage device2)/**iPod2** (iPod connected using USB input2) at the same time, use a Pioneer USB cable (CD-U50E) in addition to the regular Pioneer USB cable.

## Operating this unit

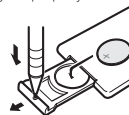
### Use and care of the remote control

Using the remote control

- 1 Point the remote control in the direction of the front panel to operate.  
When using for the first time, pull out the film protruding from the tray.

Replacing the battery

- 1 Slide the tray out on the back of the remote control.
- 2 Insert the battery with the plus (+) and minus (-) poles aligned properly.



#### WARNING

- Keep the battery out of the reach of children. Should the battery be swallowed, consult a doctor immediately.
- Batteries (battery pack or batteries installed) must not be exposed to excessive heat such as sunshine, fire or the like.

#### CAUTION

- Use one **CR2025 (3V)** lithium battery.
- Remove the battery if the remote control is not used for a month or longer.
- There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not handle the battery with metallic tools.
- Do not store the battery with metallic objects.
- If the battery leaks, wipe the remote control completely clean and install a new battery.

- When disposing of used batteries, comply with governmental regulations or environmental public institutions' rules that apply in your country/area.
- "Perchlorate Material – special handling may apply."  
See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate). (Applicable to California, U.S.A.)\*

#### Important

- Do not store the remote control in high temperatures or direct sunlight.
- The remote control may not function properly in direct sunlight.
- Do not let the remote control fall onto the floor, where it may become jammed under the brake or accelerator pedal.

### Menu operations identical for function settings/audio adjustments/initial settings/lists

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

- 1 Press **DISP**

Turning the demo display on or off

- 1 Press and hold **DISP**

Returning to the ordinary display

Canceling the initial setting menu

- 1 Press **BAND/4/1**.

Returning to the ordinary display from the list/category

- 1 Press **BAND/4/1**.

Selecting a function or list

- 1 Turn **M.C.** or **LEVER**.
  - In this manual, "Turn **M.C.**" is used to describe the operation used to select a function or list.

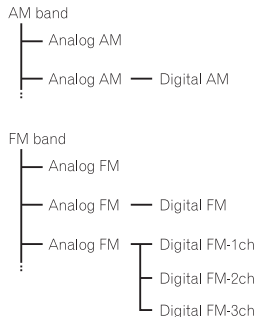
## Operating this unit

### Tuner

#### About HD Radio™ broadcasting

HD Radio™ broadcasting is high quality audio and data services. HD Radio broadcasting is brought to you by your local FM/AM stations. HD Radio broadcasting features the following:

- High quality audio
- FM multicasting
- Data services



#### PSD

Program Service Data: Contributes to the superior user experience of HD Radio Technology. Presents song name, artist, station IDs, HD2/HD3 Channel Guide, and other relevant data streams.

#### HD2/HD3

Adjacent to traditional main stations are extra local FM channels. These HD2/HD3 Channels provide new, original music as well as deep cuts into traditional genre.

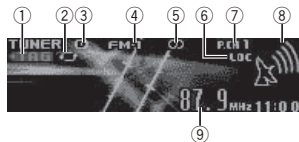
#### Digital Sound

Digital, CD-quality sound. HD Radio Technology enables local radio stations to broadcast a clean digital signal. AM sounds like today's FM and FM sounds like a CD.

#### iTunes® Tagging

iTunes® Tagging provides you the opportunity to discover a wide range of content and the means to "tag" that content for later review and purchase from the iTunes® Store.

#### Basic operations



- 1 TAG indicator
- 2 TAGS transferring indicator
- 3 Signal reception status indicator  
When digital signal is received, is displayed. Otherwise, is displayed.
- 4 Band indicator
- 5 (stereo) indicator
- 6 LOC indicator  
Appears when local seek tuning is on.
- 7 Preset number indicator
- 8 Signal level indicator
- 9 Frequency indicator

## Operating this unit

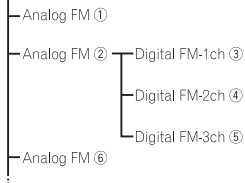
Selecting a band

- 1 Press **BAND/** until the desired band (**FM-1**, **FM-2**, **FM-3** for FM or **AM**) is displayed.

Manual tuning (step by step)

- 1 Turn **LEVER**.

- When an analog station is received, tuning down operation is conducted within the analog broadcasting. (6 → 2)
- If a digital broadcast is not yet received, tuning-up operation tunes in the next analog station. (2 → 6)



Seeking

- 1 Turn and hold down **LEVER**.
  - While turning and holding down **LEVER**, you can skip stations. Seek tuning starts as soon as you release **LEVER**.

### Storing and recalling stations for each band

**1 Press **Q** (list).**  
The preset screen is displayed.

**2 Use M.C. to store the selected frequency in the memory.**

Turn to change the preset number. Press and hold to store.

**3 Use M.C. to select the desired station.**  
Turn to change the station. Press to select.

- You can also change the station by pressing or .

- Press **BAND/** or **Q** (list) to return to the ordinary display.

### Switching the display

Desired information can be displayed while tag information has been broadcasting.

Selecting the desired text information

- 1 Press **DISP**  
Frequency or program service name—song title and artist name

### Using iTunes tagging

This function can be operated with the following iPod models.

- iPod touch 4th generation
- iPod touch 3rd generation
- iPod touch 2nd generation
- iPod touch 1st generation
- iPod classic 160GB
- iPod classic 120GB
- iPod classic
- iPod nano 6th generation
- iPod nano 5th generation
- iPod nano 4th generation
- iPod nano 3rd generation
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone

However, tag information can be stored in this unit even while other iPod models are used. The song information (tag) can be saved from the broadcasting station to your iPod. The songs will show up in a playlist called "Tagged playlist" in iTunes the next time you sync your iPod. Then you can directly buy the songs you want from the iTunes Store.

- The tagged songs and the song that you can buy from the iTunes Store may be different. Make sure to confirm the song before you make the purchase.

## Operating this unit

Storing the tag information to this unit

- 1 Tune in to the broadcast station.
- 2 Press and hold **M.C.** if **TAG** is indicated in the display while desired song is broadcasting.
  - While storing the tag data on this unit, **TAG** flashes.

Storing the tagged information to your iPod

- 1 Connect an iPod to the USB cable using an iPod Dock Connector.
- 2 Select **Tags transfer** from the function settings to transfer tag information from this unit to the iPod. Refer to **Tags transfer (Tags transfer)** on page 10.
  - If you switch sources during tag transfer, the transfer will stop. To cancel the transfer, select **Tags transfer** from the function settings and then try transferring the tag information again.

## Function settings

1 Press **M.C.** to display the main menu.

2 Turn **M.C.** to change the menu option and press to select **FUNCTION**.

3 Turn **M.C.** to select the function.

After selecting, perform the following procedures to set the function.

### BSM (best stations memory)

BSM (best stations memory) automatically stores the six strongest stations in the order of their signal strength.

- 1 Press **M.C.** to turn BSM on.
  - To cancel, press **M.C.** again.

### Local (local seek tuning)

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

- 1 Press **M.C.** to select the desired setting.
 

FM: **OFF—Level 1—Level 2—Level 3—Level 4**

AM: **OFF—Level 1—Level 2**

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

### Seek mode (seek mode)

Seek tuning setting can be changed between digital station seek (**Seek HD**) and all station seek (**Seek ALL**) depending on the reception status.

- 1 Press **M.C.** to select your favorite setting.
 

**Seek ALL—Seek HD**

### Blending (reception mode)

If a digital broadcast reception condition gets poor, this unit automatically switches to the analog broadcast of the same frequency level. If this function is set to on, the tuner switches between digital broadcast and analog broadcast automatically. If this function is off, reception will be conducted within an analog broadcast.

- 1 Press **M.C.** to turn this function on or off.

### Note

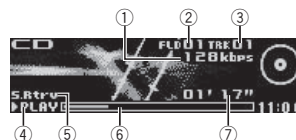
If **Seek mode** is set to **Seek HD** and **Blending** is set to off, the tuner cannot receive broadcasts. In this case, the seek mode or reception mode is changed automatically as follows:

- When **Seek mode** is set to **Seek HD**, if you switch **Blending** from on to off, **Seek mode** is changed to **Seek ALL**.
- When **Blending** is set to off, if you switch **Seek mode** from **Seek ALL** to **Seek HD**, **Blending** is changed to on.

## Operating this unit

### CD/CD-R/CD-RW and USB storage devices

#### Basic operations



- 1 Bit rate/sampling frequency indicator  
Shows the bit rate or sampling frequency of the current track (file) when the compressed audio is playing.
  - When playing back VBR (variable bit rate)-recorded AAC files, the average bit rate value is displayed. However, depending on the software used to decode AAC files, **VBR** may be displayed.
- 2 Folder number indicator  
Shows the folder number currently playing when the compressed audio is playing.
- 3 Track number indicator
- 4 **PLAY/PAUSE** indicator
- 5 **S.Rtrv** indicator  
Appears when Sound Retriever function is on.
- 6 Song time (progress bar)
- 7 Play time indicator

Open the front panel

- 1 Press the open button.  
Disc loading slot appears.

Playing a CD/CD-R/CD-RW

- 1 Insert the disc into the disc loading slot with the label side up.

Ejecting a CD/CD-R/CD-RW

- 1 Press **▲** (eject).

Playing songs on a USB storage device

- 1 Use a Pioneer USB cable to connect the USB storage device to the unit.
  - Plug in the USB storage device using the USB cable.

Stopping playback of files on a USB storage device

- You may disconnect the USB storage device at any time.

Selecting a folder

- 1 Press **⏪** or **⏩**.

Selecting a track

- 1 Turn **LEVER**.

Fast forwarding or reversing

- 1 Turn and hold down **LEVER** to the right or left.

Returning to root folder

- 1 Press and hold **BAND/↵**.

Switching between compressed audio and CD-DA

- 1 Press **BAND/↵**.

Switching between playback memory devices  
You can switch between playback memory devices on USB storage devices with more than one Mass Storage Device-compatible memory device.

- 1 Press **BAND/↵**.
  - You can switch between up to 32 different memory devices.

### Notes

- When playing compressed audio, there is no sound during fast forward or reverse.
- Disconnect USB storage devices from the unit when not in use.
- If there are two USB storage devices connected to this unit, the device connected to the input of the selected source is the one that is operated.
- Disconnect communications for the USB storage device before switching to operation of the other device.

## Operating this unit

### Displaying text information

Selecting the desired text information

- 1 Press **DISP**.

#### Notes

- Depending on the version of iTunes used to write MP3 files to a disc or media file types, incompatible text stored within an audio file may be displayed incorrectly.
- Text information items that can be changed depend on the media.

### Selecting and playing files/tracks from the name list

If there is a USB storage device connected to this unit, this function is only available when **Music browse** is set to **OFF**. Refer to **Music browse** (*music browse*) on page 14.

- 1 Press **Q** (**list**) to switch to the file/track name list mode.
- 2 Use both **LEVER** and **M.C.** to select the desired file name (or folder name).

Changing the file or folder name

- 1 Turn **LEVER**.

Playing

- 1 When a file or track is selected, press **M.C.**

Viewing a list of the files (or folders) in the selected folder

- 1 When a folder is selected, press **M.C.**

Playing a song in the selected folder

- 1 When a folder is selected, press and hold **M.C.**

### Browsing for a song

- This function is available only for USB storage devices.

- If there is a USB storage device connected to this unit, this function is only available when **Music browse** is set to **USB memory1** or **USB memory2**. Refer to **Music browse** (*music browse*) on page 14.

- 1 Press **Q** (**list**) to switch to the top menu of the list search.

- 2 Use **M.C.** to select a category/song.

Changing the name of the song or category

- 1 Turn **M.C.**

**Artists** (artists)—**Albums** (albums)—**Songs** (songs)—**Genres** (genres)

Playing

- 1 When a song is selected, press **M.C.**

Viewing a list of songs in the selected category

- 1 When a category is selected, press **M.C.**

Playing a song in the selected category

- 1 When a category is selected, press and hold **M.C.**

Searching the list by alphabet

- 1 When a list for the selected category is displayed, press **Q** to switch to alphabet search mode.
- 2 Turn **M.C.** to select a letter.
- 3 Press **M.C.** to display the alphabetical list.

#### Notes

- This unit must create an index in order to facilitate **Artists**, **Albums**, **Songs**, and **Genres** searches. Typically, it will take approximately 70 seconds to create an index for 1 000 songs, and we recommend that up to 3 000 songs be used. Please note that certain types of file may take longer to index than others.
- Depending on the number of files in the USB storage device, there may be a delay when displaying a list.

## Operating this unit

- Keys may not have any effect during the creation of an index or list.
- Lists are recreated each time the unit is turned on.

### Function settings

- 1 Press **M.C.** to display the main menu.

- 2 Turn **M.C.** to change the menu option and press to select **FUNCTION**.

- 3 Turn **M.C.** to select the function.

After selecting, perform the following procedures to set the function.

#### Play mode (repeat play)

- 1 Press **M.C.** to select a repeat play range.
  - CD/CD-R/CD-RW**
  - Disc repeat** – Repeat all tracks
  - Track repeat** – Repeat the current track
  - Folder repeat** – Repeat the current folder
  - USB audio player/USB memory**
  - All repeat** – Repeat all files
  - Track repeat** – Repeat the current file
  - Folder repeat** – Repeat the current folder

#### Random mode (random play)

- 1 Press **M.C.** to turn random play on or off.

#### Link play (link play)

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to change the mode; press to select.

- Artist** – Plays an album of the artist currently being played.
- Album** – Plays a song from the album currently being played.
- Genre** – Plays an album from the genre currently being played.

The selected song/album will be played after the currently playing song.

- This function is available only for USB storage devices.

#### Pause (pause)

- 1 Press **M.C.** to pause or resume.

#### Sound Retriever (sound retriever)

Automatically enhances compressed audio and restores rich sound.

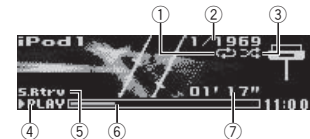
- 1 Press **M.C.** to select the desired setting.

**1–2—OFF** (off)

**1** is effective for low compression rates, and **2** is effective for high compression rates.

## iPod

### Basic operations



- 1 Repeat indicator
- 2 Song number indicator
- 3 Shuffle indicator
- 4 **PLAY/PAUSE** indicator
- 5 **S.Rtrv** indicator



## Operating this unit

Appears when Sound Retriever function is on.

- ⑥ Song time (progress bar)
- ⑦ Play time indicator

Playing songs on an iPod
① Connect an iPod to the USB cable using an iPod Dock Connector.
Selecting a track (chapter)
① Turn <b>LEVER</b> .
Fast forwarding or reversing
① Turn and hold down <b>LEVER</b> to the right or left.
Selecting an album
① Press <b>⏪</b> or <b>⏩</b> .

### Notes

- The iPod cannot be turned on or off when the control mode is set to **AUDIO**.
- Disconnect headphones from the iPod before connecting it to this unit.
- The iPod will turn off about two minutes after the ignition switch is set to OFF.
- Two iPods can be connected to this unit at the same time. Settings are the same as those for **USB1/iPod1** and **USB2/iPod2**.
- If there are two iPods connected to this unit, the iPod connected to the input of the selected source is the one that is operated.
- Disconnect communications for the selected iPod before switching to operation of the other iPod.

## Displaying text information

Selecting the desired text information
① Press <b>⇒</b> / <b>DISP</b> .

## Browsing for a song

- Press **⏪** (**list**) to switch to the top menu of the list search.

## 2 Use M.C. to select a category/song.

Changing the name of the song or category
① Turn <b>M.C.</b>
<b>Playlists</b> (playlists)— <b>Artists</b> (artists)— <b>Albums</b> (albums)— <b>Songs</b> (songs)— <b>Podcasts</b> (podcasts)— <b>Genres</b> (genres)— <b>Composers</b> (composers)— <b>Audiobooks</b> (audiobooks)
Playing
① When a song is selected, press <b>M.C.</b>
Viewing a list of songs in the selected category
① When a category is selected, press <b>M.C.</b>
Playing a song in the selected category
① When a category is selected, press and hold <b>M.C.</b>
Searching the list by alphabet
① When a list for the selected category is displayed, press <b>⏪</b> to switch to alphabet search mode.
② Turn <b>M.C.</b> to select a letter.
③ Press <b>M.C.</b> to display the alphabetical list.

### Notes

- You can play playlists created with the PC application (MusicSphere). The application will be available on our website.
- Playlists that you created with the PC application (MusicSphere) are displayed in abbreviated form.

## Playing songs related to the currently playing song

You can play songs from the following lists.

- Album list of the currently playing artist
- Song list of the currently playing album
- Album list of the currently playing genre

- Press and hold **M.C.** to switch to link play mode.

## Operating this unit

## 2 Turn M.C. to change the mode; press to select.

- Artist** – Plays an album of the artist currently being played.
- Album** – Plays a song from the album currently being played.
- Genre** – Plays an album from the genre currently being played.

The selected song/album will be played after the currently playing song.

### Notes

- The selected song/album may be canceled if you operate functions other than link search (e.g. fast forward and reverse).
- Depending on the song selected to play, the end of the currently playing song and the beginning of the selected song/album may be cut off.

## 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** is selected.

This function is not compatible with the following iPod models.

— iPod with video

— iPod nano 1st generation

APP Mode is compatible with the following iPod models.

- iPod touch 4th generation (software version 4.1 or later)
- iPod touch 3rd generation (software version 3.0 or later)
- iPod touch 2nd generation (software version 3.0 or later)
- iPod touch 1st generation (software version 3.0 or later)
- iPod nano 6th generation (software version 1.0 or later)
- iPod nano 5th generation (software version 1.0.2 or later)

- iPhone 4 (software version 4.1 or later)
- iPhone 3GS (software version 3.0 or later)
- iPhone 3G (software version 3.0 or later)
- iPhone (software version 3.0 or later)

- Press **BAND** **⏪** to switch the control mode.
  - iPod** – This unit's iPod function can be operated from the connected iPod.
  - APP** – Play back the sound from your iPod applications.
  - AUDIO** – This unit's iPod function can be operated from this unit.

## Function settings

- Press **M.C.** to display the main menu.

- Turn **M.C.** to change the menu option and press to select **FUNCTION**.

- Turn **M.C.** to select the function.

After selecting, perform the following procedures to set the function.

### Play mode (repeat play)

- Press **M.C.** to select a repeat play range.
  - Repeat One** – Repeat the current song
  - Repeat All** – Repeat all songs in the selected list

### Shuffle mode (shuffle)

- Press **M.C.** to select your favorite setting.
  - Shuffle Songs** – Play back songs in the selected list in random order.
  - Shuffle Albums** – Play back songs from a randomly selected album in order.
  - Shuffle OFF** – Cancel random play.

### Shuffle all (shuffle all)

- Press **M.C.** to turn shuffle all on. To turn off, set **Shuffle mode** in the **FUNCTION** menu to off.

### Link play (link play)

## Operating this unit

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to change the mode; press to select. For details about the settings, refer to *Playing songs related to the currently playing song* on the previous page.

### Pause (pause)

- 1 Press **M.C.** to pause or resume.

### Tags transfer (Tags transfer)

- 1 Press **M.C.** to store the tag information. Refer to *Using iTunes tagging* on page 6.

### Audiobooks (audiobook speed)

- 1 Press **M.C.** to select your favorite setting.
  - **Faster** – Playback at a speed faster than normal
  - **Normal** – Playback at normal speed
  - **Slower** – Playback at a speed slower than normal

### Sound Retriever (sound retriever)

- 1 Press **M.C.** to select the desired setting.
  - 1—2—**OFF** (off)
 1 is effective for low compression rates, and 2 is effective for high compression rates.

### Notes

- Switching the control mode to **iPod** pauses song playback. Operate the iPod to resume playback.
- The following functions are still accessible from the unit even if the control mode is set to **iPod/APP**.
  - Pausing
  - Fast forward/reverse
  - Track up/down
- When the control mode is set to **iPod/APP**, only **Pause**, **Tags transfer** or **Sound Retriever** is available.

- The browse function cannot be operated from this unit.

## Using Pandora®

### IMPORTANT:

Requirements to access the Pandora music service using the Pioneer car audio/video products:

- iPhone (first generation), iPhone 3G, iPhone 3GS, iPhone 4G, iPod touch 1G, iPod touch 2G, iPod touch 3G or iPod touch 4G (firmware version 3.0 or later).
- Certain firmware versions for the iPod touch and iPhone may not be compatible with the Pandora application. If this appears to be the case, please update the firmware to a version that is compatible with Pandora.
- Latest version of the Pandora application for the iPhone, downloaded to your device. (Search Apple iTunes App Store for "Pandora").
- Current Pandora account (Free account and paid accounts available from Pandora; create a free account online at <http://www.pandora.com/register> or through the Pandora application for the iPhone).
- iPhone Data Plan.

**Note:** If the Data Plan for your iPhone does not provide for unlimited data usage, *additional charges from your carrier may apply* for accessing the Pandora service via 3G and/or EDGE networks.

- Connection to the Internet via 3G, EDGE or Wi-Fi network.
- Optional Pioneer adapter cable connecting your iPhone to the Pioneer car audio/video products.

### Limitations:

- Access to the Pandora service will depend on the availability of a cellular and/or Wi-Fi network for purposes of allowing your iPhone to connect to the Internet.

## Operating this unit

- Pandora's service is currently only available in the U.S.
- Ability of the Pioneer car audio/video products to access the Pandora service is subject to change without notice and could be affected by any of the following: compatibility issues with future firmware versions of iPhones; compatibility issues with future firmware versions of the Pandora application for the iPhone; changes to the Pandora music service by Pandora; discontinuation of the Pandora music service by Pandora.
- Certain functionality of the Pandora service is not available when accessing the service through the Pioneer car audio/video products, including, but not limited to, creating new stations, deleting stations, emailing current stations, buying tracks from iTunes, viewing additional text information, logging in to Pandora, and adjusting Cell Network Audio Quality.

Pandora Internet radio is a music service not affiliated with Pioneer. More information is available at <http://www.pandora.com>.

You can play the Pandora by connecting your iPod which was installed the Pandora application.

### Notes

- Two iPods can be connected to this unit at the same time. Settings are the same as those for **Pandora1** and **Pandora2**.
- If there are two iPods connected to this unit, the iPod connected to the input of the selected source is the one that is operated.
- Disconnect communications for the selected iPod before switching to operation of the other iPod.

## Basic operations



- 1 Thumbs Up/Thumbs Down indicator
- 2 QuickMix indicator
- 3 **PLAY/PAUSE** indicator
- 4 **S.Rtrv** indicator  
Appears when Sound Retriever function is on.
- 5 Song time (progress bar)
- 6 Play time indicator

### Playing tracks

- 1 Connect an iPod to the USB cable using an iPod Dock Connector.
- 2 Start up the Pandora application installed on the iPod.

### Giving a Thumbs Up

- 1 Press **1** to give a "Thumbs Up" for the track currently playing.

### Giving a Thumbs Down

- 1 Press **2** to give a "Thumbs Down" for the track currently playing and to skip to the next track.

### Skipping tracks

- 1 Turn **LEVER** to the right.

## Displaying text information

### Selecting the desired text information

- 1 Press **DISP**

## Operating this unit

### Selecting and playing the QuickMix/station list

1 Press **Q** (list) to switch to the QuickMix/station list mode.

2 Use **M.C.** to select the QuickMix or desired station.

Changing the sort order

1 Press **Q** (list).

- **ABC** – You can sort the items in the list alphabetically
- **DATE** – You can sort the items in the list in order of the dates on which the items were created

Changing QuickMix or stations

1 Turn **M.C.**

Playing

1 When QuickMix or the station is selected, press **M.C.**

### Function settings

1 Press **M.C.** to display the main menu.

2 Turn **M.C.** to change the menu option and press to select **FUNCTION**.

3 Turn **M.C.** to select the function.

After selecting, perform the following procedures to set the function.

**Bookmark** (bookmark)

1 Press **M.C.** to store track information.

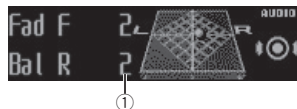
**Pause** (pause)

1 Press **M.C.** to pause or resume.

**Sound Retriever** (sound retriever)

- 1 Press **M.C.** to select the desired setting.  
**1—2—OFF** (off)  
**1** is effective for low compression rates, and **2** is effective for high compression rates.

### Audio adjustments



- 1 Audio display  
Shows the audio adjustment status.

1 Press **M.C.** to display the main menu.

2 Turn **M.C.** to change the menu option and press to select **AUDIO**.

3 Turn **M.C.** to select the audio function.  
After selecting, perform the following procedures to set the audio function.

**Fader/Balance** (fader/balance adjustment)

- 1 Press **M.C.** to display the setting mode.  
 2 Press **M.C.** to cycle between fader (front/rear) and balance (left/right).  
 3 Turn **M.C.** to adjust the front/rear speaker balance.
- The front/rear speaker balance cannot be adjusted when the rear output setting is **Rear SP:S/W**. Refer to **S/W control** (rear output and subwoofer setting) on page 15.
- 4 Turn **M.C.** to adjust the left/right speaker balance.

**Preset EQ** (equalizer recall)

## Operating this unit

- 1 Press **M.C.** to display the setting mode.  
 2 Turn **M.C.** to select an equalizer curve.  
**Powerful—Natural—Vocal—Custom1—Custom2—Flat—Super bass**

**G.EQ** (equalizer adjustment)

You can adjust the currently selected equalizer curve setting as desired. Adjusted equalizer curve settings are stored in **Custom1** or **Custom2**.

- 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 stored 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 Recall the equalizer curve you want to adjust.  
 2 Press **M.C.** to display the setting mode.  
 3 Press **M.C.** to cycle between equalizer band and level.  
 4 Turn **M.C.** to select the equalizer band to adjust.  
**100Hz—315Hz—1.25kHz—3.15kHz—8kHz**  
 Turn **M.C.** to adjust the equalizer curve.  
**+6 to -6** is displayed as the equalizer curve is increased or decreased.

**Loudness** (loudness)

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

- 1 Press **M.C.** to display the setting mode.  
 2 Press **M.C.** to turn loudness on or off.  
 3 Turn **M.C.** to select the desired setting.  
**Low** (low)—**Mid** (mid)—**High** (high)

**Subwoofer1** (subwoofer on/off setting)

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

- 1 Press **M.C.** to display the setting mode.  
 2 Press **M.C.** to turn subwoofer output on or off.  
 3 Turn **M.C.** to select the phase for the subwoofer output.

Turn **M.C.** to the left to select reverse phase, and **Reverse** appears in the display. Turn **M.C.** to the right to select normal phase, and **Normal** appears in the display.

**Subwoofer2** (subwoofer adjustment)

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

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

- 1 Press **M.C.** to display the setting mode.  
 2 Press **M.C.** to cycle between the cut-off frequency and the output level for the subwoofer.  
 3 Turn **M.C.** to select the cut-off frequency.  
**50Hz—63Hz—80Hz—100Hz—125Hz**  
 4 Turn **M.C.** to adjust the output level for the subwoofer.

The subwoofer level increases or decreases each time you turn **M.C.** **+6** to **-24** is displayed as the level is increased or decreased.

**Bass Booster** (bass boost)

- 1 Press **M.C.** to display the setting mode.  
 2 Turn **M.C.** to select a desired level.  
**0 to +6** is displayed as the level is increased or decreased.

**HPF** (high pass filter adjustment)

## Operating this unit

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 Press **M.C.** to display the setting mode.
- 2 Press **M.C.** to turn high pass filter on or off.
- 3 Turn **M.C.** to select the cut-off frequency.

**50Hz—63Hz—80Hz—100Hz—125Hz**

### SLA (source level adjustment)

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

- When selecting FM as the source, you cannot switch to **SLA**.
- Settings are based on the FM volume level, which remains unchanged.
- The AM volume level can also be adjusted with this function.

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to adjust the source volume.

Adjustment range: **+4 to -4**

## Using Bluetooth wireless technology

### Using 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.
- Operations may vary depending on the kind of cellular phone.

- Advanced operations that require attention such as dialing numbers on the monitor, using the phone book, etc., are prohibited while driving. Park your vehicle in a safe place when using these advanced operations.

### 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.

- 1 Connection  
Operate the Bluetooth telephone connection menu. Refer to *Connection menu operation* on this page.
- 2 Function settings  
Operate the Bluetooth telephone function menu. Refer to *Phone menu operation* on page 14.

### Basic operations

Making a phone call  
 • Refer to *Phone menu operation* on page 14.

Answering an incoming call  
 1 When a call is received, press **M.C.**

Ending a call  
 1 Press **M.C.**

Rejecting an incoming call  
 1 When a call is received, press **M.C.**

Answering a call waiting  
 1 When a call is received, press **M.C.**

Switching between callers on hold  
 1 Press **M.C.**

Canceling call waiting  
 1 Press **M.C.**

## Operating this unit

Adjusting the other party's listening volume

- 1 Turn **LEVER** while talking on the phone.
- When private mode is on, this function is not available.

Turning private mode on or off

- 1 Press **BAND/** while talking on the phone.

Switching the information display

- 1 Press **DISP** while talking on the phone.

### Notes

- If private mode is selected on the cellular phone, hands-free phoning may not be available.
- The estimated call time appears in the display (this may differ slightly from the actual call time).

### Connection menu operation

#### Important

- Be sure to park your vehicle in a safe place and apply the parking brake when performing this operation.
- Connected devices may not operate properly if more than one Bluetooth device is connected at a time (e.g. a phone and a separate audio player are connected simultaneously).

#### 1 Press and hold **M.C.** to display the connection menu.

- You cannot operate this step during a call.

#### 2 Turn **M.C.** to select the function.

After selecting, perform the following procedures to set the function.

**Device list** (connecting or disconnecting a device from the device list)

- When no device is selected in the device list, this function is not available.
- 1 Press **M.C.** to display the setting mode.
  - 2 Turn **M.C.** to select the name of a device you want to connect/disconnect.
    - Press and hold **M.C.** to switch the Bluetooth device address and device name.
  - 3 Press **M.C.** to connect/disconnect the selected device.
 

Once the connection is established, **Connected** is displayed.

**Delete device** (deleting a device from the device list)

- When no device is selected in the device list, this function is not available.
- 1 Press **M.C.** to display the setting mode.
  - 2 Turn **M.C.** to select the name of a device you want to delete.
    - Press and hold **M.C.** to switch the Bluetooth device address and device name.
  - 3 Press **M.C.** to display **Delete YES**.
  - 4 Press **M.C.** to delete a device information from the device list.
- While this function is in use, do not turn off the engine.

**Add device** (connecting a new device)

## Operating this unit

- 1 Press **M.C.** to start searching.
  - To cancel, press **M.C.** while searching.
  - If this unit fails to find any available cellular phones, **Not found** is displayed.
- 2 Turn **M.C.** to select a device from the device list.
  - Press and hold **M.C.** to switch the Bluetooth device address and device name.
- 3 Press **M.C.** to connect the selected device.
  - To complete the connection, check the device name (**Pioneer BT Unit**). Enter the PIN code on your device if necessary.
  - PIN code is set to **0000** as the default. You can change this code.
  - 6-digit number appears on the display of this unit. Once the connection is established, this number disappears.
  - If you are unable to complete the connection using this unit, use the device to connect to the unit.
  - If three devices are already paired, **Device Full** is displayed and it is not possible to perform this operation. In this case, delete a paired device first.

**Special device** (setting a 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.

- 1 Press **M.C.** to display the setting mode.
  - If three devices are already paired, **Device Full** is displayed and it is not possible to perform this operation. In this case, delete a paired device first.
- 2 Turn **M.C.** to display a special device. Press to select.
- 3 Turn **M.C.** to display this unit's device name, Bluetooth device address and PIN code.
- 4 Use a device to connect to this unit.
  - To complete the connection, check the device name (**Pioneer BT Unit**) and enter the PIN code on your device.
  - PIN code is set to **0000** as the default. You can change this code.

**Auto connect** (connecting to a Bluetooth device automatically)

- 1 Press **M.C.** to turn automatic connection on or off.

**Visibility** (setting the visibility of this unit)

To check the availability of this unit from other devices, Bluetooth visibility of this unit can be turned on.

- 1 Press **M.C.** to turn the visibility of this unit on or off.
  - While setting **Special device**, Bluetooth visibility of this unit is turned on temporarily.

**Pin code input** (PIN code input)

## Operating this unit

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

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select a number.
- 3 Press **M.C.** to move the cursor to the next position.
- 4 After inputting PIN code, press and hold **M.C.**
  - After inputting, pressing **M.C.** returns you to the PIN code input display, and you can change the PIN code.

**Device INFO** (Bluetooth device address display)

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** left to switch to the Bluetooth device address.
  - Turning **M.C.** right returns to the device name.

## Bluetooth Audio

### Important

- Depending on the Bluetooth audio player connected to this unit, the available operations will be limited to the following two levels:
  - A2DP profile (Advanced Audio Distribution Profile): You can only playback songs on your audio player.
  - AVRCP profile (Audio/Video Remote Control Profile): You can perform playback, pause playback, select songs, etc.
- Since there are a number of Bluetooth audio players available on the market, available operations will vary extensively. When operating your player with this unit, refer to the instruction manual that came with your Bluetooth audio player as well as this manual.
- Information related to a song (such as the elapsed playing time, song title, song index, etc.) cannot be displayed on this unit.

- As the signal from your cellular phone may cause noise, avoid using it when you are listening to songs on your Bluetooth audio player.
- When a call is in progress on the cellular phone connected to this unit via Bluetooth wireless technology, the sound of the Bluetooth audio player connected to this unit is muted.
- When the Bluetooth audio player is in use, you cannot connect to a Bluetooth telephone automatically.
- Playback continues even if you switch from your Bluetooth audio player to another source while listening to a song.

## Setting up for Bluetooth audio

Before you can use the Bluetooth audio function you must set up the unit for use with your Bluetooth audio player. This entails establishing a Bluetooth wireless connection between this unit and your Bluetooth audio player, and pairing your Bluetooth audio player with this unit.

## Basic operations



- 1 Device name
  - Shows the device name of the connected Bluetooth audio player.

## Operating this unit

Fast forwarding or reversing

- 1 Turn and hold down **LEVER** to the right or left.

Selecting a track

- 1 Turn **LEVER**.

Starting playback

- 1 Press **BAND/⏪**.

### Function settings

#### 1 Press M.C. to display the main menu.

#### 2 Turn M.C. to change the menu option and press to select FUNCTION.

#### 3 Turn M.C. to select the function.

After selecting, perform the following procedures to set the function.

**Play** (play)

- 1 Press **M.C.** to start playback.

**Stop** (stop)

- 1 Press **M.C.** to stop the playback.

**Pause** (pause)

- 1 Press **M.C.** to turn pause on.

### Phone menu operation

#### 🔑 Important

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

#### 1 Press **☰** to display the phone menu.

#### 2 Turn M.C. to select the function.

After selecting, perform the following procedures to set the function.

**Missed calls** (missed call history)

**Dialed calls** (dialed call history)

**Received calls** (received call history)

- 1 Press **M.C.** to display the phone number list.
- 2 Turn **M.C.** to select a name or phone number.
- 3 Press **M.C.** to make a call.
  - To display details about the contact you selected, press and hold **M.C.**

**PhoneBook** (phone book)

- The phone book in your cellular phone will be transferred automatically when the phone is connected to this unit.
- 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 **Visibility** (setting the visibility of this unit) on the previous page.

- 1 Press **M.C.** to display **SEARCH** (alphabetical list).
- 2 Turn **M.C.** to select the first letter of the name you are looking for.
  - Press and hold **M.C.** to select the desired character type.
- 3 Press **M.C.** to display a registered name list.
- 4 Turn **M.C.** to select the name you are looking for.
- 5 Press **M.C.** to display the phone number list.
- 6 Turn **M.C.** to select a phone number you want to call.
- 7 Press **M.C.** to make a call.

**Phone Function** (phone function)

You can set **Auto answer**, **Ring tone** and **PH.B.Name view** from this menu. For details, refer to *Function and operation* on this page.

## Operating this unit

### Function and operation

#### 1 Display Phone Function.

Refer to **Phone Function** (*phone function*) on this page.

#### 2 Press M.C. to display the function menu.

#### 3 Turn M.C. to select the function.

After selecting, perform the following procedures to set the function.

**Auto answer** (automatic answering)

- 1 Press **M.C.** to turn automatic answering on or off.

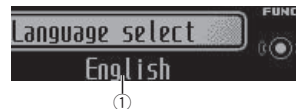
**Ring tone** (ring tone select)

- 1 Press **M.C.** to turn the ring tone on or off.

**PH.B.Name view** (phone book name view)

- 1 Press **M.C.** to switch between the lists of names.

### Initial settings



- 1 Function display
  - Shows the function status.

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

#### 2 Press M.C. and hold until the initial setting menu appears in the display.

#### 3 Turn M.C. to select the initial setting.

After selecting, perform the following procedures to set the initial setting.

**Language select** (multi-language)

For your convenience, this unit equips multiple language display. You can select the language best suited to your first language.

- 1 Press **M.C.** to select the language.

**English—Français—Español**

**Calendar** (setting the date)

- 1 Press **M.C.** to select the segment of the calendar display you wish to set.
  - Year—Day—Month
- 2 Turn **M.C.** to set the date.

**Clock** (setting the clock)

- 1 Press **M.C.** to select the segment of the clock display you wish to set.
  - Hour—Minute
- 2 Turn **M.C.** to adjust the clock.

**EngineTime alert** (elapsed time display setting)

This setting allows you to measure the length of time that elapses from when the machine is turned on and display the amount of elapsed time per set period.

Also, you will hear alarm.

- 1 Press **M.C.** to select your favorite setting.
  - OFF—15Minutes—30Minutes**

**Music browse** (music browse)

When operating a USB storage device, you can select a file from the list.

- 1 Press **M.C.** to select the setting.
  - OFF—USB memory1—USB memory2**

**Warning tone** (warning tone setting)

## Operating this unit

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 Press **M.C.** to turn the warning tone on or off.

### AUX1/AUX2 (auxiliary input setting)

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

1 Press **M.C.** to turn auxiliary setting on or off.

### Dimmer (dimmer setting)

To prevent the display from being too bright at night, the display is automatically dimmed when the car's headlights are turned on. You can turn the dimmer on or off.

1 Press **M.C.** to turn dimmer on or off.

### Contrast (display contrast setting)

1 Turn **M.C.** to adjust the contrast level.  
0 to 15 is displayed as the level is increased or decreased.

### S/W control (rear output and subwoofer setting)

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

- 1 Press **M.C.** to switch the rear output setting.
- When no subwoofer is connected to the rear output, select **Rear SP:F.Range** (full-range speaker).
  - When a subwoofer is connected to the rear output, select **Rear SP:S/W** (subwoofer).
- Even if you change this setting, there will be no output unless you turn the subwoofer output on (refer to **Subwoofer1** (subwoofer on/off setting) on page 11).
- 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.

### Demonstration (demo display setting)

1 Press **M.C.** to turn the demo display on or off.

### Ever-scroll (scroll mode setting)

When ever scroll is set to **ON**, recorded text information scrolls continuously in the display. Set to **OFF** if you prefer the information to scroll just once.

1 Press **M.C.** to turn the ever scroll on or off.

### BT AUDIO (Bluetooth audio activation)

You need to activate the **BT Audio** source in order to use a Bluetooth audio player.

1 Press **M.C.** to turn the **BT Audio** source on or off.

**Clear memory** (resetting the Bluetooth wireless technology module)

## Operating this unit

Bluetooth device data can be deleted. To protect personal information, we recommend deleting this data before transferring the unit to other persons. The following settings will be deleted.

- phone book entries on the Bluetooth telephone
  - preset numbers on the Bluetooth telephone
  - registration assignment of the Bluetooth telephone
  - call history of the Bluetooth telephone
  - information of the connected Bluetooth telephone
  - PIN code of the Bluetooth device
- 1 Press **M.C.** to show the confirmation display. **YES** is displayed. Clearing memory is now on standby.
- If you do not want to reset phone memory, turn **M.C.** to display **CANCEL** and press to select.
- 2 Press **M.C.** to clear the memory.
- Cleared** is displayed and the settings are deleted.
- While this function is in use, do not turn off the engine.

### BT Version info. (Bluetooth version display)

You can display the system versions of this unit and of Bluetooth module.

- 1 Press **M.C.** to display the information.
- Turning **M.C.** or **LEVER** cycles between the system version of this unit and that of the Bluetooth module.

### S/W UPDATE (updating the software)

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

- Never turn the unit off while the software is being updated.
- 1 Press **M.C.** to display the data transfer mode. Follow the on-screen instructions to finish updating the software.

## Other functions

### Using an AUX source

Up to two auxiliary devices such as VCR or portable devices (sold separately) can be connected to this unit. When connected, auxiliary devices are automatically read as AUX sources and assigned to **AUX1** or **AUX2**. The relationship between **AUX1** and **AUX2** sources is explained below.

### About AUX1 and AUX2

There are two methods to connect auxiliary devices to this unit.

#### AUX1 source:

When connecting auxiliary device using a stereo mini plug cable

- Insert the stereo mini plug into the **AUX input jack**.

For more details, refer to the installation manual.

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

#### AUX2 source:

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

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

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

This auxiliary device is automatically set to **AUX2**.

- This type of connection can only be made if the auxiliary device has RCA outputs.

## Operating this unit

### Selecting AUX as the source

- Press SRC/OFF to select AUX as the source.
  - AUX cannot be selected unless the auxiliary setting is turned on. For more details, refer to **AUX1/AUX2** (auxiliary input setting) on the previous page.

### 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.

### Selecting the external unit as the source

- Press SRC/OFF to select EXT as the source.

### 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.

- Press BAND/Ⓜ.
- Press and hold BAND/Ⓜ.
- Turn LEVER.
- Turn and hold down LEVER.
- Press Ⓜ or Ⓞ.

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

- 1 Press **Ⓜ** (list).
- 2 Use **M.C.** to select **Key 1 to Key 6**.  
Turn to change **Key 1 to Key 6** and press.

### Advanced operations

- 1 Press **M.C.** to display the main menu.
- 2 Use **M.C.** to select **FUNCTION**.  
Turn to change the menu option. Press to select.
- 3 Turn **M.C.** to select the function.  
**Function1** (function 1)—**Function2** (function 2)—**Function3** (function 3)—**Function4** (function 4)—**Auto/Manual** (auto/manual)
- 4 Press **M.C.** to select the desired setting.

### Using different entertainment displays

You can enjoy entertainment displays while listening to each sound source.

### Switching the display indication

- 1 Press **M.C.** to display the main menu.
- 2 Turn **M.C.** to change the menu option and press to select **ENTERTAINMENT**.
- 3 Turn **M.C.** to select the function.
- 4 Press **M.C.** to display the Background.
- 5 Turn **M.C.** to change the display.  
Background visual—genre—background picture 1—background picture 2—background picture 3—background picture 4—simple display—movie screen —calendar

## Operating this unit

- Genre display changes depending on the genre of music.
- Genre display may not operate correctly depending on the application used to encode audio files.

### Turning the clock display on or off

- 1 Press **M.C.** to display the main menu.
- 2 Turn **M.C.** to change the menu option and press to select **ENTERTAINMENT**.
- 3 Turn **M.C.** to select the function.
- 4 Press **M.C.** to select the desired setting.  
Clock display—elapsed time display—clock off
  - You can switch the function by pressing **Ⓞ** /DISP OFF.

### Selecting the illumination color

This unit is equipped with multiple-color illumination. You can select desired colors for the keys and display of this unit. You also can customize the colors you want to use.

### Selecting the key color from the illumination color list

You can select desired colors for the keys of this unit.

- 1 Press **M.C.** to display the main menu.
- 2 Turn **M.C.** to change the menu option and press to select **ILLUMI**.
- 3 Turn **M.C.** to display **Key** and press to select.
- 4 Turn **M.C.** to select the illumination color.  
You can select one option from the following list.
  - 30 preset colors (**WHITE** to **ROSE**)
  - **SCAN** (cycle through all colors)
  - 3 sets of colors (**WARM**, **AMBIENT**, **CALM**)

- **CUSTOM** (customized illumination color)

### Notes

- When **SCAN** is selected, the system automatically cycles through the 30 preset colors.
- When **WARM** is selected, the system automatically cycles through the warm colors.
- When **AMBIENT** is selected, the system automatically cycles through the ambient colors.
- When **CALM** is selected, the system automatically cycles through the calm colors.
- When **CUSTOM** is selected, the customized color saved is selected.

### Selecting the display color from the illumination color list

You can select the desired colors for the display of this unit.

- 1 Press **M.C.** to display the main menu.
- 2 Turn **M.C.** to change the menu option and press to select **ILLUMI**.
- 3 Turn **M.C.** to switch to **Display** and press to select.
- 4 Turn **M.C.** to select the illumination color.  
You can select one option from the following list.
  - 30 preset colors (**WHITE** to **ROSE**)
  - **SCAN** (cycle through all colors)
  - 3 sets of colors (**WARM**, **AMBIENT**, **CALM**)
  - **CUSTOM** (customized illumination color)

### Note

For details about colors on the list, refer to *Selecting the key color from the illumination color list* on this page.



## Operating this unit

### Selecting key and display color from the illumination color list

You can select the desired colors for the keys and display of this unit.

- 1 Press **M.C.** to display the main menu.
- 2 Turn **M.C.** to change the menu option and press to select **ILLUMI.**
- 3 Turn **M.C.** to display **Key & Display** and press to select.
- 4 Turn **M.C.** to select the illumination color. You can select one option from the following list.
  - 30 preset colors (**WHITE** to **ROSE**)
  - **SCAN** (cycle through all colors)
  - 3 sets of colors (**WARM**, **AMBIENT**, **CALM**)

#### Notes

- You cannot select **CUSTOM** in this function.
- Once you select a color in this function, colors on the keys and display of this unit automatically switch to the color you selected.
- For details about colors on the list, refer to *Selecting the key color from the illumination color list* on the previous page.

### Customizing the illumination color

- 1 Press **M.C.** to display the main menu.
- 2 Turn **M.C.** to change the menu option and press to select **ILLUMI.**
- 3 Turn **M.C.** to display **Key** or **Display**. Press to select.
- 4 Press **M.C.** and hold until the customizing illumination color setting appears in the display.
- 5 Press **M.C.** to select the primary color. **R** (red)—**G** (green)—**B** (blue)

### 6 Turn **M.C.** to adjust the brightness level.

Adjustment range: **0** to **60**

- You cannot select a level below **10** for all three of **R** (red), **G** (green), and **B** (blue) at the same time.
- You can also perform the same operation on other colors.

#### Notes

- You cannot create a custom illumination color when **SCAN** or a set of colors (**WARM**, **AMBIENT**, or **CALM**) is selected.
- You can create custom illumination colors for both **Key** and **Display**.

### Switching the display indication and button illumination

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

#### ● Press and hold $\odot$ /DISP OFF.

Pressing and holding  $\odot$  /DISP OFF switches the display indication and button illumination on or off.

- Even if the display indication is turned off, operation can be conducted. If operation is conducted while the display indication is off, display will light up for a few seconds and then turn off again.

## Available accessories

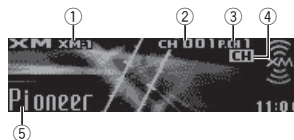
### XM tuner

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

- With this unit, you can operate two additional functions: XM channel direct selection and preset channel list.

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

### Basic operations



- ① XM band indicator
- ② XM channel number indicator
- ③ XM preset number indicator
- ④ XM channel select setting indicator  
Shows what channel select setting has been selected. **CH** is displayed when **Channel number** is selected, and **CAT** is displayed when **Category** is selected.
- ⑤ XM text information  
Shows the text information of broadcast channel.

Select an XM band.

- ① Press **BAND** / $\#$ .

- Band can be selected from **XM-1**, **XM-2** or **XM-3**.

Select a channel.

- ① Turn **LEVER**.

- By turning and holding down **LEVER**, you can increase or decrease the channel number continuously.
- You can also perform tuning from a desired channel category. (Refer to *Selecting a channel from a channel category* on the next page.)

Switching the XM display

- ① Press  $\odot$  /DISP

### Storing and recalling broadcast stations

You can easily store up to six stations for each band as presets.

- Six stations for each band can be stored in memory.

#### 1 Press $\mathcal{Q}$ (list).

Preset screen is displayed.

#### 2 Use **M.C.** to store the selected station in memory.

Turn to change the preset number. Press and hold to store.

#### 3 Use **M.C.** to select the desired station.

- Turn to change the station; press to select.
- You can also change the station by pushing  $\odot$  or  $\odot$  or turning **LEVER**.

### Function and operation

- 1 Press **M.C.** to display the main menu.

## Available accessories

### 2 Use M.C. to select FUNCTION.

The function selection menu is displayed. Turn to change the menu option. Press to select.

### 3 Turn M.C. to select the function.

After selecting, perform the following procedures to set the function.

#### Channel mode (channel select mode setting)

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

1 Press **M.C.** to change the channel select mode.

**Channel number** (channel number select setting)—**Category** (channel category select setting)

## Selecting a channel from a channel category

### 1 Switch the channel select settings to Category.

Refer to **Channel mode** (channel select mode setting) on this page.

### 2 Push $\odot$ or $\ominus$ to select the desired channel category.

### 3 Turn LEVER to select the desired channel from the selected channel category.

## Displaying the Radio ID

### 1 Select the channel select settings to Channel number.

Refer to **Channel mode** (channel select mode setting) on this page.

### 2 Turn LEVER to select RADIO ID.

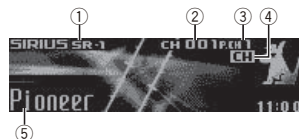
- If you select another channel, display of the ID code is canceled.
- **RADIO ID** and the ID codes are repeatedly displayed one after the other.

## SIRIUS Satellite Radio tuner

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

When the SIRIUS tuner is used together with this unit, some operations differ slightly from those described in the SIRIUS operation manual. This manual provides information on these points. For all other information on using the SIRIUS tuner, please refer to the SIRIUS operation manual.

## Listening to SIRIUS Satellite Radio



- ① SIRIUS band indicator
- ② SIRIUS channel number indicator
- ③ SIRIUS preset number indicator
- ④ SIRIUS channel select setting indicator  
Shows what channel select setting has been selected. **CH** is displayed when **Channel number** is selected, and **CAT** is displayed when **Category** is selected. **I.R** is displayed during the Instant Replay mode.
- ⑤ SIRIUS channel name  
Shows the channel name of broadcast channel.

## Available accessories

Select a SIRIUS band.

- 1 Press **BAND**/ $\#$ .
- Band can be selected from **SR-1**, **SR-2** or **SR-3**.

Select a channel.

- 1 Turn **LEVER**.
- By turning and holding down **LEVER**, you can increase or decrease the channel number continuously.
  - You can also perform tuning from a desired channel category. (Refer to *Selecting a channel from a channel category* on the next page.)

Switching the SIRIUS display

- 1 Press  $\rightarrow$ /**DISP**
- Play time—Channel number—Channel name—Category name—Artist name—Song title/program title—Composer name
- The play time is displayed during Instant Replay mode. Refer to *Using the Instant Replay function* on the next page.
  - Play time display indicates the time inverted from the live broadcast. The play time is displayed as a negative number.

Displaying the Radio ID

- 1 Turn **LEVER** to select **CH 000**.
- To select **CH 000**, set the channel select setting to **Channel number**. About the channel select setting, refer to **Channel mode** (channel select mode setting) on this page.

### Note

It may take a few seconds before you can hear anything while this unit acquires and processes the satellite signal when you change the source to a SIRIUS tuner or select a channel.

## Storing and recalling broadcast stations

You can easily store up to six stations for each band as presets.

- Six stations for each band can be stored in memory.

### 1 Press $\mathcal{Q}$ (list).

Preset screen is displayed.

### 2 Use M.C. to store the selected station in memory.

Turn to change the preset number. Press and hold to store. The SIRIUS preset number you have selected will flash and then remain lit. The selected station has been stored in memory.

### 3 Use M.C. to select the desired station.

- Turn to change the station; press to select.
- You can also change the station by pushing  $\odot$  or turning **LEVER**.

## Function and operation

### 1 Press M.C. to display the main menu.

### 2 Use M.C. to select FUNCTION.

The function selection menu is displayed. Turn to change the menu option. Press to select.

### 3 Turn M.C. to select the function.

After selecting, perform the following procedures to set the function.

#### Channel mode (channel select mode setting)

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

1 Press **M.C.** to change the channel select mode.

**Channel number** (channel number select setting)—**Category** (channel category select setting)

#### Game alert (game alert setting)

## Available accessories

This system can alert you when games involving your favorite teams are about to start. To use this function you need to set up a game alert for the teams in advance.

- To use this function, a Pioneer SIRIUS bus interface (e.g. CD-SB10) is required.
- To use this function, a SIRIUS plug-and-play unit with a Game Alert Function is required.
- For details, refer to the SIRIUS plug-and-play unit's manuals.
- You can also operate this function when a SIR-PNR2 is connected to this unit.
- The Game Alert function is on at the default setting.
- Once you select the teams, you need to turn the Game Alert function on.

- 1 Press **M.C.** to turn the Game Alert on or off.
  - When a game of the selected team is about to start (or is currently playing) on a different station, **Game alert info** is displayed. Press and hold **M.C.** to switch to that station, and you can listen to that game.

### Team setting (team setting)

- 1 Press **M.C.** to select the function.
- 2 Turn **M.C.** to select a desired league.
- 3 Turn **M.C.** to select a desired team.
- 4 Press **M.C.** to store the selected team in memory.
 

The game alert function is activated for that team.
- 5 Repeat these steps to select other teams.
  - When **FULL** is displayed, additional teams cannot be selected. In this case, first delete a selected team and then try again.

### Game info (game information)

If any games of the selected teams are currently playing, you can display information on the games and tune in to the broadcast channel. You can display information on the games while enjoying the sound from the station you are currently tuned in to. You can also tune in to the broadcast channel when you wish to.

- 1 Press **M.C.** to select the function.
- 2 Turn **M.C.** to select a game.
  - The game score will be updated automatically.
- 3 Press **M.C.** to switch to the other station and listen to the game.
  - If you have not selected any teams, **NOT SET** is displayed.
  - When games involving your favorite teams are not currently playing, **NO GAME** is displayed.

### Pause (pause)

During the Instant Replay mode, you can select **Pause** (pause). Refer to *Using the Instant Replay function* on this page.

- 1 Press **M.C.** to pause or resume.

## Selecting a channel from a channel category

### 1 Select the channel select settings to Category.

Refer to **Channel mode** (*channel select mode setting*) on the previous page.

### 2 Push **▲** or **▼** to select the desired channel category.

### 3 Turn **LEVER** to select the desired channel from the selected channel category.

## Using the Instant Replay function

The following functions can be operated in Instant Replay mode.

## Available accessories

- To use this function, a Pioneer SIRIUS bus interface (e.g. CD-SB10) is required.
- To use this function, a SIRIUS plug-and-play unit with an Instant Replay Function is required.
- For details, refer to the SIRIUS plug-and-play unit's manuals.

### Using Instant Replay mode

- 1 When SIRIUS tuner is selected as the source, press and hold **BAND/▲**.
  - When **BAND/▲** is pressed, instant replay mode is canceled.
  - When another source is selected, instant replay mode is canceled.

### Select a track

- 1 Turn **LEVER**.

### Fast forward or reverse

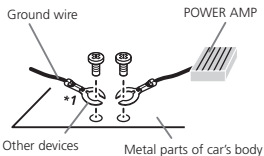
- 1 Turn and hold down **LEVER** for about one second and then release.

## Installation

## Connections

**WARNING**

- Use speakers over 50 W (output value) and between 4 Ω to 8 Ω (impedance value). Do not use 1 Ω to 3 Ω speakers for this unit.
- The black cable is ground. When installing this unit or power amp (sold separately), make sure to connect the ground wire first. Ensure that the ground wire is properly connected to metal parts of the car's body. The ground wire of the power amp and the one of this unit or any other device must be connected to the car separately with different screws. If the screw for the ground wire loosens or falls out, it could result in fire, generation of smoke or malfunction.



**\*\*Non supplied for this unit.**

**Important**

- When installing this unit in a vehicle without an ACC (accessory) position on the ignition switch, failure to connect the red cable to the terminal that detects operation of the ignition key may result in battery drain.



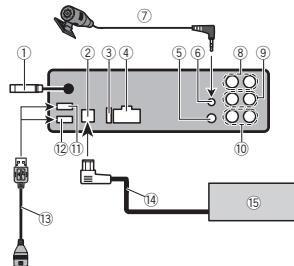
ACC position



No ACC position

- Use this unit with a 12-volt battery and negative grounding only. Failure to do so may result in a fire or malfunction.
- 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 shift lever 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 multi-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 VDC). 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.

## This unit

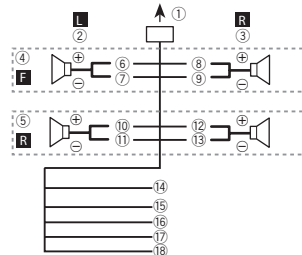


- Antenna input  
15 cm (5-7/8 in.)
- IP-BUS input (blue)
- Fuse (10 A)
- Power cord input
- Wired remote input  
Hard-wired remote control adaptor can be connected (sold separately).
- Microphone input
- Microphone  
4 m (13 ft. 1 in.)
- Rear output
- Front output
- Subwoofer output
- USB port 1
- USB port 2
- USB cable  
1.5 m (4 ft. 11 in.)
  - If connecting both **USB1** (USB storage device1)/**iPod1** (iPod connected using USB input1) and **USB2** (USB storage device2)/**iPod2** (iPod connected using USB input2) at the same time, use a Pioneer USB cable (CD-U50E) in addition to the regular Pioneer USB cable.
- IP-BUS cable (sold separately)
- Pioneer IP-BUS accessories (sold separately)

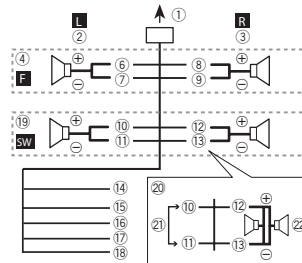
## Installation

## Power cord

Perform these connections when not connecting a rear speaker lead to a subwoofer.



Perform these connections when using a subwoofer without the optional amplifier.



- To power cord input
- Left
- Right
- Front speaker
- Rear speaker
- White
- White/black
- Gray

## Installation

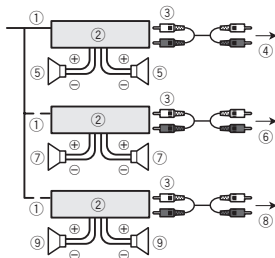
- ⑨ Gray/black
- ⑩ Green
- ⑪ Green/black
- ⑫ Violet
- ⑬ Violet/black
- ⑭ Black (chassis ground)  
Connect to a clean, paint-free metal location.
- ⑮ Yellow  
Connect to the constant 12 V supply terminal.
- ⑯ Red  
Connect to terminal controlled by ignition switch (12 V DC).
- ⑰ Blue/white  
Connect to system control terminal of the power amp or auto-antenna relay control terminal (max. 300 mA 12 V DC).
- ⑱ Orange/white  
Connect to lighting switch terminal.
- ⑲ Subwoofer (4Ω)
- ⑳ When using a subwoofer of 70 W (2Ω), be sure to connect the subwoofer to the violet and violet/black leads of this unit. Do not connect anything to the green and green/black leads.
- ㉑ Not used.
- ㉒ Subwoofer (4Ω) × 2

### Notes

- With a 2 speaker system, do not connect anything to the speaker leads that are not connected to speakers.
- Change the initial setting of this unit. Refer to **S/W control** (rear output and subwoofer setting) on page 15. The subwoofer output of this unit is monaural.

### Power amp (sold separately)

Perform these connections when using the optional amplifier.



- ① System remote control  
Connect to Blue/white cable.
- ② Power amp (sold separately)
- ③ Connect with RCA cables (sold separately)
- ④ To Rear output
- ⑤ Rear speaker
- ⑥ To Front output
- ⑦ Front speaker
- ⑧ To subwoofer output
- ⑨ Subwoofer

## Installation

### Important

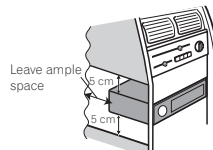
- Check all connections and systems before final installation.
- Do not use unauthorized parts as this may cause malfunctions.
- Consult your dealer if installation requires drilling of holes or other modifications to the vehicle.
- Do not install this unit where:
  - it may interfere with operation of the vehicle.
  - it may cause injury to a passenger as a result of a sudden stop.

## Installation

- 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 60°.



- When installing, 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.



### DIN front/rear mount

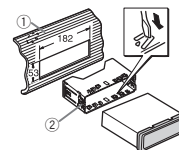
This unit can be properly installed using either front-mount or rear-mount installation. Use commercially available parts when installing.

#### DIN Front-mount

##### 1 Insert the mounting sleeve into the dashboard.

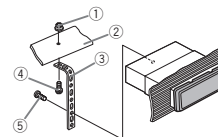
For installation in shallow spaces, use the supplied mounting sleeve. If there is enough space, use the mounting sleeve that came with the vehicle.

##### 2 Secure the mounting sleeve by using a screwdriver to bend the metal tabs (90°) into place.



- ① Dashboard
- ② Mounting sleeve

##### 3 Install the unit as illustrated.

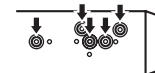


- ① Nut
- ② Firewall or metal support
- ③ Metal strap
- ④ Screw
- ⑤ Screw (M4 × 8)

- Make sure that the unit is installed securely in place. An unstable installation may cause skipping or other malfunctions.

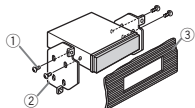
#### DIN Rear-mount

##### 1 Determine the appropriate position where the holes on the bracket and the side of the unit match.



## Installation

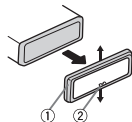
### 2 Tighten two screws on each side.



- ① Screw
  - ② Mounting bracket
  - ③ Dashboard or console
- Use either truss (5 mm × 8 mm) or flush surface (5 mm × 9 mm) screws, depending on the bracket screw holes.

### Removing the unit

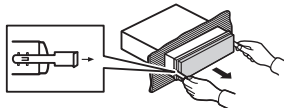
#### 1 Remove the trim ring.



- ① Trim ring
  - ② Notched tab
- Releasing the front panel allows easier access to the trim ring.
  - When reattaching the trim ring, point the side with the notched tab down.

#### 2 Insert the supplied extraction keys into both sides of the unit until they click into place.

### 3 Pull the unit out of the dashboard.



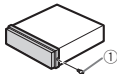
### Removing and re-attaching the front panel

You can remove the front panel to protect your unit from theft.

Press the detach button and push the front panel upward and pull it toward you. For details, refer to *Removing the front panel to protect your unit from theft* and *Re-attaching the front panel* on page 5.

### Securing the front panel

The front panel can be secured with the supplied screw.



- ① Screw

## Installation

### Installing the microphone

#### ⚠ CAUTION

It is extremely dangerous to allow the microphone lead to become wound around the steering column or shift lever. 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

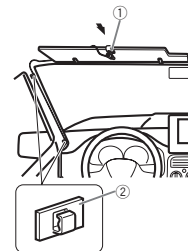
#### 1 Install the microphone on the microphone clip.



- ① Microphone
- ② Microphone clip

#### 2 Install the microphone clip on the sun visor.

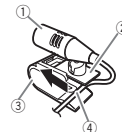
With the sun visor up, install the microphone clip. (Lowering the sun visor reduces the voice recognition rate.)



- ① Microphone clip
- ② Clamp

### When installing the microphone on the steering column

#### 1 Install the microphone on the microphone clip.

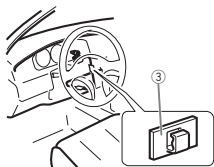
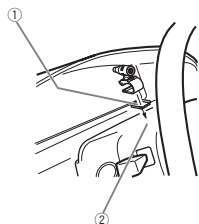


- ① Microphone
- ② Microphone base
- ③ Microphone clip
- ④ Fit the microphone lead into the groove.

■ 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.

## Installation

- 2 Install the microphone clip on the steering column.



- ① Double-sided tape
- ② Install the microphone clip on the rear side of the steering column.
- ③ Clamp

## Adjusting the microphone angle



The microphone angle can be adjusted.

## Additional information

### Troubleshooting

Symptom	Cause	Action	Symptom	Cause	Action
The display automatically returns to the ordinary display.	You did not perform any operation within about 30 seconds.	Perform operation again.	The display screen changes at random instead of displaying the clock continuously even with the clock display turned on.	Demo mode is on.	<ul style="list-style-type: none"> <li>Press and hold <b>DISP</b> to cancel demo mode.</li> <li>Turn off the demo display setting.</li> </ul>
The repeat play range changes unexpectedly.	Depending on the repeat play range, the selected range may change when another folder or track is being selected or during fast forwarding/reversing.	Select the repeat play range again.	The display screen changes at random even with the display off turned on.	Demo mode is on.	<ul style="list-style-type: none"> <li>Press and hold <b>DISP</b> to cancel demo mode.</li> <li>Turn off the demo display setting.</li> </ul>
A subfolder is not played back.	Subfolders cannot be played when <b>Folder repeat</b> (folder repeat) is selected.	Select another repeat play range.	The unit is malfunctioning. There is interference.	You are using a device, such as a cellular phone, that transmits electric waves near the unit.	Move electrical devices that may be causing the interference away from the unit.
<b>NO XXXX</b> appears when a display is changed ( <b>NO TITLE</b> , for example).	There is no embedded text information. No text information can be obtained.	Switch the display or play another track/file. <ul style="list-style-type: none"> <li>Switch the broadcast station.</li> <li>Operate this unit in areas with good reception condition.</li> </ul>			
The display screen changes at random.	Demo mode is on.	<ul style="list-style-type: none"> <li>Press and hold <b>DISP</b> to cancel demo mode.</li> <li>Turn off the demo display setting.</li> </ul>			

## Additional information

Symptom	Cause	Action
The sound from the Bluetooth audio source is not played back.	There is a call in progress on a Bluetooth connected cellular phone.	The sound will be played back when the call is terminated.
	A Bluetooth connected cellular phone is currently being operated.	Do not operate the cellular phone at this time.
	A call was made with a Bluetooth connected cellular phone and then immediately terminated. As a result, communication between this unit and the cellular phone was not terminated properly.	Reconnect the Bluetooth connection between this unit and the cellular phone.
Text information cannot be scrolled.	Display scrolling is stopped automatically when the temperature around this unit is 50°F or less.	Wait until it warms back up.
Movie playback is stopped and the simple display appears.	Movie playback is stopped automatically when the temperature around this unit is 50°F or less.	Wait until it warms back up.

Symptom	Cause	Action
Sound from the iPod cannot be heard.	The audio output direction may switch automatically when the Bluetooth and USB connections are used at the same time.	Use the iPod to change the audio output direction.

### Error messages

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

#### CD player

Message	Cause	Action
<b>ERROR-07, 11, 12, 17, 30</b>	The disc is dirty.	Clean the disc.
	The disc is scratched.	Replace the disc.
<b>ERROR-10, 11, 12, 15, 17, 30, A0</b>	There is an electrical or mechanical error.	Turn the ignition switch OFF and back ON, or switch to a different source, then back to the CD player.
<b>ERROR-15</b>	The inserted disc is blank.	Replace the disc.
<b>ERROR-23</b>	Unsupported CD format.	Replace the disc.

## Additional information

Message	Cause	Action
<b>FORMAT READ</b>	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.
<b>NO AUDIO</b>	The inserted disc does not contain any playable files.	Replace the disc.
<b>SKIPPED</b>	The inserted disc contains DRM protected files.	Replace the disc.
<b>PROTECT</b>	All the files on the inserted disc are embedded with DRM.	Replace the disc.

**USB storage device/iPod**

Message	Cause	Action
<b>NO DEVICE</b>	No USB storage device or iPod is connected.	Connect a compatible USB storage device/iPod.
<b>FORMAT READ</b>	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.

Message	Cause	Action
<b>NO AUDIO</b>	There are no songs.	Transfer the audio files to the USB storage device and connect.
	The connected USB storage device has security enabled.	Follow the USB storage device instructions to disable the security.
<b>SKIPPED</b>	The connected USB storage device contains files embedded with Windows Media™ DRM 9/10.	Play an audio file not embedded with Windows Media DRM 9/10.
	All the files in the USB storage device are embedded with Windows Media DRM 9/10.	Transfer audio files not embedded with Windows Media DRM 9/10 to the USB storage device and connect.
<b>NOT COMPATIBLE</b>	The USB device connected to is not supported by this unit.	<ul style="list-style-type: none"> <li>Connect a USB Mass Storage Class compliant device.</li> <li>Disconnect your device and replace it with a compatible USB storage device.</li> </ul>
	Non-compatible iPod	Disconnect your device and replace it with a compatible iPod.



## Additional information

Message	Cause	Action
<b>CHECK USB</b>	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 storage device consumes more than 500 mA (maximum allowable current).	Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect only compliant USB storage devices.
	The iPod operates correctly but does not charge.	Make sure the connection cable for the iPod has not shorted out (e.g., not caught in metal objects). After checking, turn the ignition switch OFF and back ON, or disconnect the iPod and reconnect.
<b>ERROR-19</b>	Communication failed.	<ul style="list-style-type: none"> <li>Perform one of the following operations.               <ul style="list-style-type: none"> <li>–Turn the ignition switch OFF and back ON.</li> <li>–Disconnect the USB storage device.</li> <li>–Change to a different source.</li> </ul> </li> <li>Then, return to the USB source.</li> <li>• Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.</li> </ul>
	iPod failure.	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
<b>ERROR-23</b>	USB storage device was not formatted with FAT12, FAT16 or FAT32.	USB storage device should be formatted with FAT12, FAT16 or FAT32.

## Additional information

Message	Cause	Action
<b>ERROR-16</b>	The iPod firmware version is old.	Update the iPod version.
	iPod failure.	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
<b>STOP</b>	There are no songs in the current list.	Select a list that contains songs.
<b>Not found</b>	No related songs.	Transfer songs to the iPod.
<b>Bluetooth device</b>		
Message	Cause	Action
<b>ERROR-10</b>	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.

### Pandora

Message	Cause	Action
<b>ERROR-19</b>	Communication failed.	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
<b>Start up the Pandora Application</b>	The Pandora application has not started running yet.	Start up the Pandora application from your iPod/iPhone.
<b>Try again later</b>	Unable to save thumb rating. Unable to save BookMark. Pandora system is undergoing maintenance.	Try again later.
<b>Skip limit reached</b>	Skip limit reached.	Do not exceed the skip limit.
<b>Check Application</b>	This version of the Pandora application is not supported.	Connect an iPod/iPhone that has a compatible version of the Pandora application installed.
<b>Check Device</b>	Device error message displayed in Pandora Application. Unable to play music from Pandora.	Please check your iPod/iPhone.

## Additional information

Message	Cause	Action
<b>No Available Station</b>	No station found.	Create a station in the Pandora application on your iPod/iPhone.
<b>No Active Stations</b>	No station selected.	Select a station.

## Handling guidelines

### Discs and player

Use only discs that feature either of the following two 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 CD into the CD loading slot.

Do not use cracked, chipped, warped, or otherwise damaged discs as they may damage the player.

Unfinalized CD-R/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 CD, 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.

When using discs that can be printed on label surfaces, check the instructions and the warnings of the discs. Depending on the discs, inserting and ejecting may not be possible. Using such discs may result in damage to this equipment.

Do not attach commercially available labels or other materials to the discs.

- The discs may warp making the disc unplayable.
- The labels may come off during playback and prevent ejection of the discs, which may result in damage to the equipment.

### USB storage device

Connections via USB hub are not supported.

Do not connect anything other than a USB storage device.

## Additional information

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 following problems may occur.

- Operations may vary.
- The storage device may not be recognized.
- Files may not be played back properly.
- The device may generate noise in the radio.

### 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.

### 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.

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.

### CAUTION

Do not leave discs, a USB storage device, or an iPod in any place that is subject to high temperatures.

## Compressed audio compatibility (disc, USB)

### WMA

File extension: .wma

Bit rate: 48 kbps to 320 kbps (CBR), 48 kbps to 384 kbps (VBR)

Sampling frequency: 32 kHz, 44.1 kHz, 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 (CBR), VBR

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, 2.4 (ID3 tag Version 2.x is given priority over Version 1.x.)

## Additional information

M3u playlist: Not compatible

MP3i (MP3 interactive), mp3 PRO: Not compatible

### WAV

File extension: .wav

Quantization bits: 8 and 16 (LPCM), 4 (MS ADPCM)

Sampling frequency: 16 kHz to 48 kHz (LPCM), 22.05 kHz and 44.1 kHz (MS ADPCM)

### AAC

Compatible format: AAC encoded by iTunes

File extension: .m4a

Sampling frequency: 11.025 kHz to 48 kHz

Transmission rate: 16 kbps to 320 kbps, VBR

Apple Lossless: Not compatible

AAC file bought from the iTunes Store (.m4p file extension): Not compatible

### Supplemental information

Only the first 32 characters can be displayed as a file name (including the file extension) or a folder name.

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 a USB storage device that has numerous folder hierarchies.

### Disc

Playable folder hierarchy: up to eight tiers (A practical hierarchy is less than two tiers).

Playable folders: up to 99

Playable files: up to 999

File system: ISO 9660 Level 1 and 2, Romeo, Joliet

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.

### USB storage device

Playable folder hierarchy: up to eight tiers (A practical hierarchy is less than two tiers).

Playable folders: up to 1 500

Playable files: up to 15 000

Playback of copyright-protected files: Not compatible

Partitioned USB storage device: Only the first partition can be played.

There may be a slight delay when starting playback of audio files on a USB storage device with numerous folder hierarchies.

### CAUTION

- Pioneer accepts no responsibility for data lost on the USB storage device even if that data is lost while using this unit.

## Additional information

- Pioneer cannot guarantee compatibility with all USB mass storage devices and assumes no responsibility for any loss of data on media players, smart phones, or other devices while using this product.

### iPod compatibility

This unit supports only the following iPod models. Supported iPod software versions are shown below. Older versions may not be supported.

Made for

- iPod touch 4th generation (software version 4.1)
- iPod touch 3rd generation (software version 3.1.1)
- iPod touch 2nd generation (software version 2.1.1)
- iPod touch 1st generation (software version 1.1)
- iPod classic 160GB (software version 2.0.2)
- iPod classic 120GB (software version 2.0)
- iPod classic (software version 1.0)
- iPod with video (software version 1.2.3)
- iPod nano 6th generation (software version 1.0)
- iPod nano 5th generation (software version 1.0.1)
- iPod nano 4th generation (software version 1.0)
- iPod nano 3rd generation (software version 1.0)
- iPod nano 2nd generation (software version 1.1.3)
- iPod nano 1st generation (software version 1.3.1)
- iPhone 4 (software version 4.1)
- iPhone 3GS (software version 3.0)
- iPhone 3G (software version 2.0)
- iPhone (software version 1.1.1)

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.

A Pioneer CD-IU51 interface cable is also available. For details, consult your dealer.

About the file/format compatibility, refer to the iPod manuals.

Audiobook, Podcast: Compatible

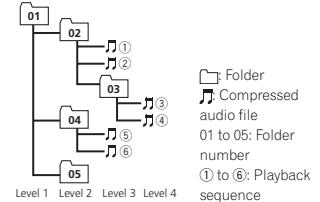
### CAUTION

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.

### USB storage device

Playback sequence is the same as recorded sequence in the USB storage device.

## Additional information

To specify the playback sequence, the following method is recommended.

- ❶ Create a file name that includes numbers that specify the playback sequence (e.g., 001xxx.mp3 and 099yyy.mp3).
- ❷ Put those files into a folder.
- ❸ Save the folder containing files on the USB storage device.

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.

## Bluetooth profiles

In order to use Bluetooth wireless technology, devices must be able to interpret certain profiles. This unit is compatible with the following profiles.

- GAP (Generic Access Profile)
- SDP (Service Discovery Protocol)
- OPP (Object Push Profile)
- HFP (Hands Free Profile)
- HSP (Head Set Profile)
- PBAP (Phone Book Access Profile)
- A2DP (Advanced Audio Distribution Profile)
- AVP (Audio/Video Profile)
- AVRCP (Audio/Video Remote Control Profile) 1.0

## Copyright and trademark

### Bluetooth

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### iTunes

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### WMA

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"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.

## Additional information

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### SAT Radio

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

- Everything worth listening to is on SiriusXM, getting over 130 channels, including the most commercial-free music, plus the best sports, news, talk and entertainment. A SiriusXM Vehicle Tuner and Subscription are required. For more information, visit "<http://www.siriusxm.com>"
- Sirius, XM, SAT Radio Ready and all related logos and marks are trademarks of Sirius XM Radio, Inc. All rights reserved.

### Pandora

Pandora is a registered trademark of Pandora Media, Inc.

## Additional information

### Specifications

#### General

Power source .....	14.4 V DC (10.8 V to 15.1 V allowable)
Grounding system .....	Negative type
Maximum current consumption .....	10.0 A
Dimensions (W × H × D):	
DIN	
Chassis .....	178 mm × 50 mm × 165 mm (7 in. × 2 in. × 6-1/2 in.)
Nose .....	188 mm × 58 mm × 17 mm (7-3/8 in. × 2-1/4 in. × 5/8 in.)
D	
Chassis .....	178 mm × 50 mm × 165 mm (7 in. × 2 in. × 6-1/2 in.)
Nose .....	170 mm × 46 mm × 17 mm (6-3/4 in. × 1-3/4 in. × 5/8 in.)
Weight .....	1.3 kg (2.9 lbs)

#### Audio

Maximum power output ...	50 W × 4 50 W × 2/4Ω + 70 W × 1/2Ω (for subwoofer)
Continuous power output .....	22 W × 4 (50 Hz to 15000 Hz, 5% THD, 4Ω load, both channels driven)
Load impedance .....	4 Ω to 8 Ω × 4 4 Ω to 8 Ω × 2 + 2 Ω × 1
Preout maximum output level .....	4.0 V
Equalizer (5-Band Graphic Equalizer):	
Frequency .....	100 Hz/315 Hz/1.25 kHz/ 3.15 kHz/8 kHz
Gain .....	±12 dB
HPEF:	
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

#### CD player

System .....	Compact disc audio system
Usable discs .....	Compact disc
Signal-to-noise ratio .....	94 dB (1 kHz) (IHF-A network)
Number of channels .....	2 (stereo)
MP3 decoding format .....	MPEG-1 & 2 Audio Layer 3
WMA decoding format .....	Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio) (Windows Media Player)
AAC decoding format .....	MPEG-4 AAC (iTunes encoded only) (.m4a) (Ver. 9.2 and earlier)
WAV signal format .....	Linear PCM & MS ADPCM (Non-compressed)

#### USB

USB standard specification .....	USB 2.0 full speed
Maximum current supply .....	1 A
USB Class .....	MSC (Mass Storage Class)
File system .....	FAT12, 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 encoded only) (.m4a) (Ver. 9.2 and earlier)
WAV signal format .....	Linear PCM & MS ADPCM (Non-compressed)

#### FM tuner

Frequency range .....	87.9 MHz to 107.9 MHz
Usable sensitivity .....	9 dBf (0.8 μV/75 Ω mono, S/N: 30 dB)
Signal-to-noise ratio .....	80 dB (digital broadcasting) (IHF-A network)
Signal-to-noise ratio .....	72 dB (analog broadcasting) (IHF-A network)

## Additional information

#### AM tuner

Frequency range .....	530 kHz to 1 710 kHz
Usable sensitivity .....	25 μV (S/N: 20 dB)
Signal-to-noise ratio .....	80 dB (digital broadcasting) (IHF-A network)
Signal-to-noise ratio .....	62 dB (analog broadcasting) (IHF-A network)

#### Bluetooth

Version .....	Bluetooth 3.0 certified
Output power .....	+4 dBm Maximum (Power class 2)

#### CEA2006 Specifications



Power output .....	14 W RMS × 4 Channels (4Ω and ≤ 1% THD+N)
S/N ratio .....	91 dBA (reference: 1 W into 4Ω)

#### Note

Specifications and the design are subject to modifications without notice.

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