CD RDS RECEIVER

Pioneer

DEH-X8500BH
DEH-X7500HD
DEH-X8500BS
DEH-X7500S

Owner's Manual

HD Radio®
This HD Radio receiver enables:

PSD
HD2/HD3
Digital Sound
iTunes Tagging

(((SiriusXM)))
R E A D Y

Bluetooth®

Made for
iPod iPhone

Contents

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 **WARN-ING**s and **CAUTION**s in this manual. *Please keep the manual in a safe and accessible place for future reference.*

FCC ID: AJDK056
MODEL NO.: DEH-X8500BH/DEH-X8500BS
IC: 775E-K056
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).

MODEL NO.: DEH-X7500HD/DEH-X7500S
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Information to User

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

English

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.

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 canceled before the operations are confirmed.

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.

If you experience problems

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

Visit our website

http://www.pioneerelectronics.com
in Canada

Before you start

- Learn about product updates (such as firm-ware 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.
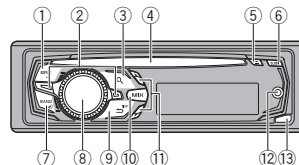
About this manual

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

Using this unit

Head unit

DEH-X8500BH and DEH-X8500BS

DEH-X7500HD and DEH-X7500S
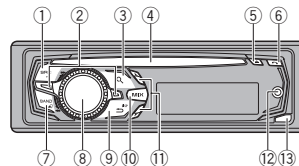
	Part		Part
①	SRC/OFF	⑧	MULTI-CONTROL (M.C.)
②	LEVER	⑨	⏎/DISP
③	🔍 (list)	⑩	MIX/DISP OFF
④	Disc loading slot	⑪	✎ / ✐
⑤	⏏ (eject)	⑫	AUX input jack (3.5 mm stereo jack)

	Part		Part
⑥	DEH-X8500BH and DEH-X8500BS ☎ (phone/on hook)	⑬	Detach button
	DEH-X7500HD and DEH-X7500S CLOCK		
⑦	BAND/⏎ (iPod)		

⚠ CAUTION
- Use an optional Pioneer USB cable (CD-U50E) to connect the USB storage device as any device connected directly to the unit will protrude out from the unit, which could be dangerous.
- Do not use unauthorized products.

Remote control

Remote controller buttons marked with the same numbers as on the unit work in the same way as the corresponding unit button, regardless of button name.
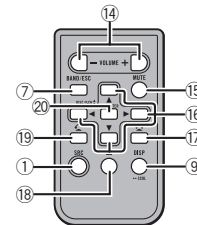
	Part	Operation
⑭	VOLUME	Press to increase or decrease volume.
⑮	MUTE	Press to mute. Press again to unmute.
⑯	▲/▼/◀/▶	Press to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.
⑰	☎	DEH-X8500BH and DEH-X8500BS Press to end a call, reject an incoming call, or reject a call waiting while on another call.
	AUDIO	DEH-X7500HD and DEH-X7500S Press to select an audio function.
⑱	❙❙	Press to pause or resume playback.
⑲	📞	DEH-X8500BH and DEH-X8500BS Press to start talking to the caller while using the phone.
	FUNC-TION	DEH-X7500HD and DEH-X7500S Press to select functions.
⑳	LIST/ENTER	Press to display the 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 use the unit 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   Follow these steps 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.
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
• You can set up the menu options from the system menu. For details about the settings, refer to *System menu* on page 18.
• You can cancel set up menu by pressing SRC/OFF.

Basic operations

⊕ Important
• Handle the front panel with care when removing or attaching it.
• 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
1 Press the detach button to release the front panel.
2 Push the front panel upward (Ⅰ) and then pull it toward (Ⅱ) you.

3 Always store the detached front panel in a protective case or bag.

Re-attaching the front panel
1 Slide the front panel to the left.
Make sure to insert the tabs on the left side of the head unit into the slots on the front panel.
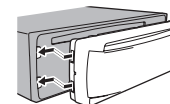
2 Press the right side of the front panel until it is firmly seated.
If you cannot attach the front panel to the head unit successfully, make sure that you are placing the front panel onto the head unit correctly. Forcing the front panel into place may result in damage to the front panel or head unit.

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.

Using this unit

Selecting a source
1 Press **SRC/OFF** to cycle between:
SiriusXM (SiriusXM Satellite Radio)—**TUNER** (tuner)—**CD** (CD player)—**USB** (USB)/**iPod** (iPod)—**Pandora** (Pandora)—**AUX** (AUX)—**BT Audio** (BT audio)—**Apps** (Smartphone App)
• **SiriusXM** is not available for DEH-X8500BH and DEH-X7500HD.
• **BT Audio** is not available for DEH-X7500HD and DEH-X7500S.

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

⚠ CAUTION

For safety reasons, park your vehicle when re-moving the front panel.

Note

When this unit's blue/white lead is connected to the vehicle's auto-antenna relay control termi-nal, the vehicle's antenna extends when this unit's source is turned on. To retract the anten-na, turn the source off.

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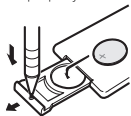
Using the remote control
1 Point the remote control in the direction of the front panel to operate.
When using for the first time, pull out the film protruding from the tray.

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 (3 V)** lithium battery.
• Remove the battery if the remote control is not used for a month or longer.
• There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
• Do not handle the battery with metallic tools.
• Do not store the battery with metallic ob-jects.
• 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 environ-mental public institutions' rules that apply in your country/area.
• "Perchlorate Material – special handling may apply.
See www.dtsc.ca.gov/hazardouswaste/perchlorate. (Applicable to California, U.S.A.)"

⊘ **Important**
• Do not store the remote control in high tem-peratures 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.

Frequently used menu operations

Returning to the previous display
Returning to the previous list/category (the folder/category one level higher)
1 Press ⏎/**DISP**.

Returning to the ordinary display
Canceling the initial setting menu
1 Press **BAND/⏏**.

Returning to the ordinary display from the list/cat-egory
1 Press **BAND/⏏**.

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.

Tuner

Only for DEH-X8500BH and DEH-X7500HD

About HD Radio™ stations

HD Radio™ stations offer high-quality audio and data services. HD Radio stations are brought to you by local FM/AM stations.
HD Radio stations feature the following:
• High quality audio
• FM multicasting
• Data services

AM band
├─ Analog AM
│
├─ Analog AM ── Digital AM
⋮

FM band
├─ Analog FM
│
├─ Analog FM ── Digital FM
│
├─ Analog FM ┬ Digital FM-1ch
│   │
│   ├ Digital FM-2ch
│   │
│   └ Digital FM-3ch
⋮
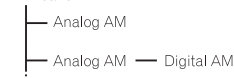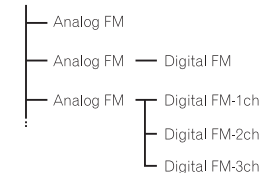
PSD
Program Service Data: Contributes to the superior user experience of HD Radio Technology. Presents song name, artist, station IDs, HD2/HD3 Channel Guide, and other rel-evant data streams.

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.

HD Radio™ Technology
HD Radio Technology manufactured under license from iBiquity Digital Corporation. U.S. and Foreign Patents. HD Radio™ and the HD, HD Radio, and "Arc" logos are proprietary trademarks of iBiquity Digital Corp.

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.
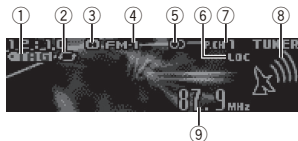⑦ Preset number indicator
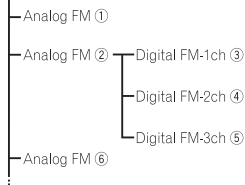⑧ Signal level indicator
⑨ Frequency indicator

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)
    — Analog FM ①
    — Analog FM ② — Digital FM-1ch ③
              — Digital FM-2ch ④
              — Digital FM-3ch ⑤
    — Analog FM 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 🔍 (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 ✎.

Switching the display
Selecting the desired text information

● **Press ⏎/DISP.**
Channel and program service name (frequency)—song title/channel and program service name (frequency)—song title/artist name—song title/genre—album title/genre

 Notes
• If the channel and program service name cannot be acquired, the broadcast frequency is displayed instead. If the channel and program service name are detected, the channel and program service name will be displayed.
• Depending on the band, text information can be changed.

Using iTunes tagging
This function can be performed 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.

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 Switch the source to **iPod**.
  The tag transfer screen is displayed.
② Turn **M.C.** to switch to **YES**.
③ Press **M.C.** to select.
  Tagged information is transferred to your iPod.

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.**
Once selected, the following functions can be adjusted.

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 allows you to tune in to only those radio stations with sufficiently strong signals for good reception.
1 Press **M.C.** to select the desired setting.
FM: **Local OFF**—**Level 1**—**Level 2**—**Level 3**—**Level 4**
AM: **Local 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 the desired 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.

Tuner

Only for DEH-X8500BS and DEH-X7500S

Basic operations
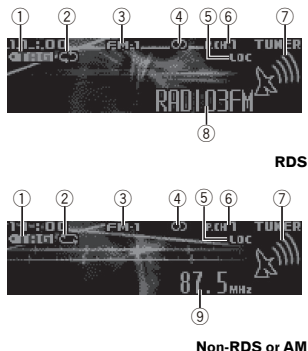
RDS

Non-RDS or AM

① **TAG** indicator
② Tags transferring indicator
③ Band indicator
④ ⦾ (stereo) indicator
⑤ **LOC** indicator
Appears when local seek tuning is on.
⑥ Preset number indicator
⑦ Signal level indicator
⑧ Program service name
⑨ Frequency indicator

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**.

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

For details, refer to *Storing and recalling stations for each band* on the previous page.

Switching the display

Selecting the desired text information

● **Press ⮌/DISP.**
Program service name (frequency)—artist name/song title

Notes
• If the program service name cannot be acquired, the broadcast frequency is displayed instead. If the program service name is detected, the program service name will be displayed.
• Depending on the band, text information can be changed.

Using iTunes tagging

For details, refer to *Using iTunes tagging* on the previous page.

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.
Once selected, the following functions can be adjusted.

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 allows you to tune in to only those radio stations with sufficiently strong signals for good reception.
1 Press **M.C.** to turn local on or off.
2 Turn **LEVER** left or right to select the desired setting.
FM: **Level 1**—**Level 2**—**Level 3**—**Level 4**
AM: **Level 1**—**Level 2**
The highest level setting allows reception of only the strongest stations, while lower levels allow the reception of weaker stations.

Tuning Mode (LEVER tuning setting)

You can assign a function to the **LEVER** on the unit.
Select **Manual** (manual tuning) to tune up or down manually or select **Preset** (preset channel) to switch between preset channels.
1 Press **M.C.** to select **Manual** or **Preset**.

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

Basic operations
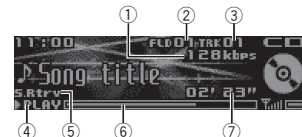
① Bit rate/sampling frequency indicator
Shows the bit rate or sampling frequency of the current track (file) when the compressed audio is playing.

- 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 current folder number when playing a compressed audio file.
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

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

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.

Operations using the MIXTRAX button

Turning MIXTRAX on or off You can use this function when **USB** is selected as the source.
1 Press **MIX**/**DISP OFF** to turn MIXTRAX on or off.
• For more details about MIXTRAX, refer to *About MIXTRAX* on page 17.
• For more details about MIXTRAX functions, refer to *MIXTRAX menu* on page 17.
• When MIXTRAX is in use, the sound retriever function is disabled.

Switching the display

Selecting the desired text information

● **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

This function is available when **OFF** is selected in **Music browse**. For details, refer to **Music browse** (*music browse*) on page 19.

1 Press ⚲ (list) to switch to the file/track name list mode.

2 Use M.C. to select the desired file name (or folder name).

Changing the file or folder name
1 Turn **M.C.**

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

You can use this function when **USB** is selected as the source.
This function is available when **ON** is selected in **Music browse**. For details, refer to **Music browse** (*music browse*) on page 19.

1 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 **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 ⚲ 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.
- Keys may not have any effect during the creation of an index or list.
- Lists are recreated each time the unit is turned on.

Playing songs related to the currently playing song

You can use this function when **USB** is selected as the source.

This function is available when **ON** is selected in **Music browse**. For details, refer to **Music browse** (*music browse*) on page 19.

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

1 Press and hold M.C. to switch to link play mode.

2 Turn M.C. to change the mode; press to select.
- **Artist** – Plays an album by the artist currently playing.
- **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 use 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.

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.
Once selected, the following functions can be adjusted.

- **Link play** is not available when **OFF** is selected in **Music browse**. For details, refer to **Music browse** (*music browse*) on page 19.
- **Sound Retriever** is not available when MIXTRAX is turned on.

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 storage device
- **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. 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.
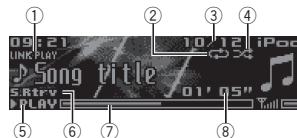
Sound Retriever (sound retriever)

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
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 **LEVER**.

Fast forwarding or reversing
1 Turn and hold down **LEVER** to the right or left.

Selecting an album
1 Press ✍ or 🖉.

Notes
- The iPod cannot be turned on or off when the control mode is set to **Ctrl Audio**.
- Disconnect headphones from the iPod before connecting it to this unit.
- The iPod will turn off about two minutes after the ignition is switched off.

Operations using the MIXTRAX button

Turning MIXTRAX on or off
1 Press **MIX**/**DISP OFF** to turn MIXTRAX on or off.
• For more details about MIXTRAX, refer to *About MIXTRAX* on page 17.
• For more details about MIXTRAX functions, refer to *MIXTRAX menu* on page 17.

Switching the display

Selecting the desired text information

● Press ⇆/DISP.

Browsing for a song

1 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 **M.C.**
Playlists (playlists)—**Artists** (artists)—**Albums** (albums)—**Songs** (songs)—**Podcasts** (podcasts)—**Genres** (genres)—**Composers** (composers)—**Audiobooks** (audiobooks)

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 🔍 to switch to alphabet search mode.
2 Turn **M.C.** to select a letter.
3 Press **M.C.** to display the alphabetical list.

Notes
- You can play playlists created with the Music-Sphere application. The application will be available on our website.
- Playlists that you created with the Music-Sphere application 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

1 Press and hold 🔍 to switch to link play mode.

2 Turn M.C. to change the mode; press to select.
- **Artist** – Plays an album by the artist currently playing.
- **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 use 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.

Using this unit's iPod function from your iPod

This unit's iPod function can be controlled by using the connected iPod.
Ctrl iPod is not compatible with the following iPod models.
- iPod nano 1st generation
- iPod with video

● **Press BAND/ to switch the control mode.**
- **Ctrl iPod** – This unit's iPod function can be operated from the connected iPod.
- **Ctrl Audio** – This unit's iPod function can be controlled by using this unit.

Notes
- Switching the control mode to **Ctrl iPod** pauses song playback. Use the iPod to resume playback.
- The following operations are still accessible from the unit even if the control mode is set to **Ctrl iPod**.
  — Pausing
  — Fast forward/reverse
  — Selecting a song (chapter)
- The volume can only be adjusted from this unit.

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.
Once selected, the following functions can be adjusted.
- **Pause** and **Sound Retriever** are only available when **Ctrl iPod** is selected in the control mode. For details, refer to *Using this unit's iPod function from your iPod* on this page.

Play mode (repeat play)

1 Press **M.C.** to select a repeat play range.
- **Repeat One** – Repeat the current song
- **Repeat All** – Repeat all songs in the selected list
- When the control mode is set to **Ctrl iPod**, the repeat play range will be same as what is set for the connected iPod.

Shuffle mode (shuffle)

1 Press **M.C.** to select the desired 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)

1 Press **M.C.** to turn shuffle all on.
To turn off **Shuffle all**, select **Shuffle OFF** in **Shuffle mode**. For details, refer to *Shuffle mode* (*shuffle*) on this page.

Link play (link play)

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 this page.

Pause (pause)

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

Audiobooks (audiobook speed)

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

Using Bluetooth wireless technology

- *Only for DEH-X8500BH and DEH-X8500BS*

Using the Bluetooth telephone

Important
- Leaving the unit on standby to connect to your phone via Bluetooth while the engine is not running can drain the battery.
- 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.
- Be sure to park your vehicle in a safe place and apply the parking brake when performing this operation.

Using this unit

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
   Use the Bluetooth telephone connection menu. Refer to *Connection menu operation* on this page.
2 Function settings
   Use the Bluetooth telephone function menu. Refer to *Phone menu operation* on the next page.

Basic operations

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

Answering an incoming call
1 When a call is received, press ☏ .

Ending a call
1 Press ☏ .

Rejecting an incoming call
1 When a call is received, press and hold ☏ .

Answering a call waiting
1 When a call is received, press ☏ .

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

Canceling call waiting
1 Press and hold ☏ .

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).

Using voice recognition

This feature can be used on an iPod equipped with voice recognition that is connected by Bluetooth with the source set to **iPod** or **BT Audio**.

● **Press and hold M.C. to switch to voice recognition mode.**
The commands available with this unit are listed below.
   • Song playback
   • Making a phone call

Note
For details on voice recognition features, check the manual for the iPod you are using.

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 work properly if more than one Bluetooth device is connected at a time (e.g. a phone and a separate audio player are connected simultaneously).

Using this unit

1 Press and hold ☏ to display the connection menu.
■ You cannot perform this step during a call.

2 Turn M.C. to select the function.
Once selected, the following functions can be adjusted.

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 swap between the Bluetooth device address and the 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 swap between the Bluetooth device address and the device name.
3 Press **M.C.** to display **Delete YES**.
4 Press **M.C.** to delete the device information from the device list.
   • While this function is in use, do not turn off the engine.

Add device (connecting a new device)

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 swap between the Bluetooth device address and the 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.

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)

Bluetooth visibility can be turned on so that other devices can discover the unit.
1 Press **M.C.** to turn the visibility of this unit on or off.

Pin code input (PIN code input)

You must enter a PIN code on your device to confirm the Bluetooth 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 Press **M.C.** to select the desired setting.
  Device name—Bluetooth device address

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.
Once selected, the following functions can be adjusted.

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 contacts on your phone will normally be transferred automatically when the phone is connected. If it is not, use your phone menu to transfer the contacts. The visibility of this unit should be on when you use the phone menu. 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.
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.

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.
Once selected, the following functions can be adjusted.

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 invert the order of names in the phone book.

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.
  You cannot use the A2DP connection when **iPod** or **Pandora** is selected as a source.
— AVRCP profile (Audio/Video Remote Control Profile): You can perform playback, pause playback, select songs, etc.
• Functions will vary depending on the Bluetooth audio player you are using. When using your player with this unit, refer to the instruction manual that came with your Bluetooth audio player as well as this manual.
• As the signal from your cellular phone may cause noise, avoid using it when you are listening to songs on your Bluetooth audio player.
• The sound of the Bluetooth audio player will be muted when the phone is in use.
• 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.

• Depending on the type of Bluetooth audio player you have connected to this unit, operation and information display may not be available for some functions.

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. You will need to pair this unit with your Bluetooth audio player.

1 Connection
  Use the Bluetooth telephone connection menu. Refer to Connection menu operation on the previous page.

Basic operations

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

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/↵**.

Switching the display
Selecting the desired text information

● Press ⤴/DISP.

Note
Depending on the device, text information can be changed.

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.
Once selected, the following functions can be adjusted.

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 pause or resume.

Using smartphone applications

Information for the smartphone compatibility

The following devices can use this function.
• iPhone and iPod touch
  In this chapter, iPod and iPhone will be referred to as "iPhone".
• Android™ device

For iPhone users

• Use an optional Pioneer USB cable (CD-U50E) to connect an iPhone.
• !!CAUTION: There is no text.

For Android device users

• The device has Android OS 2.2 or later.
• The device supports Bluetooth SPP (Serial Port Profile) and A2DP (Advanced Audio Distribution Profile).
  The device is connected to this unit via Bluetooth.
Compatibility with all Android devices is not guaranteed.
For details about Android device compatibility with this unit, refer to the information on our website.

Using Pandora®
IMPORTANT:
Requirements to access Pandora using the Pioneer car audio/video products:
• iPhone compatibility
  Apple iPhone (first generation), iPhone 3G, iPhone 3GS, iPhone 4, iPhone 4S, iPod touch 1G, iPod touch 2G, iPod touch 3G or iPod touch 4G (firmware version 3.0 or later)
  Certain firmware versions for the 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, 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).
• 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 device to connect to the Internet.
• 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 iPhone; 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 functions of the Pandora service are 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 Pandora by connecting your iPhone with the Pandora application installed.

Starting procedure (for iPhone users)

1 Connect an iPhone to the USB cable using an iPhone Dock Connector.

2 Select Wired in APP CONNECT MODE. For details, refer to APP CONNECT MODE (*APP connect mode setting*) on page 19.
If using DEH-X7500HD and DEH-X7500S, proceed to the next step.

3 Start up the application on the smartphone.

4 Switch the source to Pandora.

Starting procedure (for Android device users)
Only for DEH-X8500BH and DEH-X8500BS

1 Connect your Android device to this unit using Bluetooth wireless technology. For details, refer to *Connection menu operation* on page 12.

2 Select Bluetooth in APP CONNECT MODE. For details, refer to APP CONNECT MODE (*APP connect mode setting*) on page 19.

3 Start up the application on the smartphone.

4 Switch the source to Pandora.

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

English

Giving a Thumbs Up
⓵ Press ✎ to give a "Thumbs Up" for the track currently playing.

Giving a Thumbs Down
⓵ Press ✎ to give a "Thumbs Down" for the track currently playing and to skip to the next track.

Skipping tracks
⓵ Turn **LEVER** to the right.

Switching the display
Selecting the desired text information

● **Press ⮌/DISP.**

Note
Depending on the station, text information can be changed.

Selecting and playing the QuickMix/station list
The device name that appears on the screen may not be the same as the device name of the connected device.

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

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

Changing the sort order
⓵ Press ⌕ (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
⓵ Turn **M.C.**

Playing
⓵ 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.
Once selected, the following functions can be adjusted.

Bookmark (bookmark)
⓵ Press **M.C.** to store track information.

Pause (pause)
⓵ Press **M.C.** to pause or resume.

Sound Retriever (sound retriever)
⓵ 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.

Using other applications
You can use this unit to control smartphone applications and start playback of tracks.

Starting procedure (for iPhone users)

1 Connect an iPhone to the USB cable using an iPhone Dock Connector.

2 Select Wired in APP CONNECT MODE. For details, refer to APP CONNECT MODE *(APP connect mode setting)* **on page 19.**
If using DEH-X7500HD and DEH-X7500S, proceed to the next step.

3 Start up the application on the smartphone.

4 Switch the source to Apps.

Starting procedure (for Android device users)
Only for DEH-X8500BH and DEH-X8500BS

1 Connect your Android device to this unit using Bluetooth wireless technology. For details, refer to *Connection menu operation* **on page 12.**

2 Select Bluetooth in APP CONNECT MODE. For details, refer to APP CONNECT MODE *(APP connect mode setting)* **on page 19.**

3 Start up the application on the smartphone.

4 Switch the source to Apps.

Basic operations

DUMMY

Selecting a track
⓵ Turn **LEVER**.

Fast forwarding or reversing
⓵ Turn and hold down **LEVER** to the right or left.

Switching the display
Selecting the desired text information

● **Press ⮌/DISP.**

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.
Once selected, the following functions can be adjusted.

Pause (pause)
⓵ Press **M.C.** to pause or resume.

Sound Retriever (sound retriever)
⓵ 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.
Once selected, the following audio functions can be adjusted.
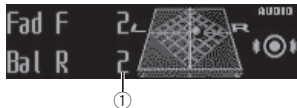- The cut-off frequency and output level can be adjusted when the subwoofer output is on.
- **SLA** is not available when FM is selected as the source.

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.
Turn **M.C.** to adjust the left/right speaker balance.

Preset EQ (equalizer recall)

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**.
- **Custom1** can be set separately for each source. However, **USB**, **iPod**, **PANDORA** and **Apps** are all set to the same setting automatically.
- **Custom2** is a shared setting used in common for all sources.

1 Press **M.C.** to display the setting mode.
2 Press **M.C.** to cycle between the following:
Equalizer band—Equalizer level
3 Turn **M.C.** to select the desired setting.
Equalizer band: **100Hz—315Hz—1.25kHz—3.15kHz—8kHz**
Equalizer level: **+6** to **–6**

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)

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.
+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)

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 sudden changes in volume when switching between sources.
- Settings are based on the FM volume level, which remains unchanged.
- The AM volume level can also be adjusted with this function.
- **USB**, **iPod**, **PANDORA** and **Apps** are all set to the same setting automatically.
1 Press **M.C.** to display the setting mode.
2 Turn **M.C.** to adjust the source volume.
Adjustment range: **+4** to **–4**

Using different entertainment displays

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

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 entertainment function.
Once selected, the following entertainment functions can be adjusted.

Background (background setting)

1 Press **M.C.** to display the setting mode.
2 Press **M.C.** to select the desired setting.
Background visual—genre—background picture 1—background picture 2—background picture 3—background picture 4—simple display—movie screen —calendar
- Genre display changes depending on the genre of music.
- Genre display may not work correctly depending on the application used to encode audio files.

Clock (clock display setting)

1 Press **M.C.** to display the setting mode.
2 Press **M.C.** to select the desired setting.
ON (clock display)—**Elapsed time** (elapsed time display)—**OFF** (clock off)
- Only for DEH-X7500HD and DEH-X7500S
You can switch the function by pressing **CLOCK**.

Selecting 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 select the illumination function.**
Once selected, the following illumination functions can be adjusted.
- **Phone color** is not available for DEH-X7500HD and DEH-X7500S.

Key color (key color setting)

You can select desired colors for the keys of this unit.
1 Press **M.C.** to display the setting mode.
2 Press **M.C.** to select the desired setting.
You can select any one of the options in the following list:
- Preset colors (ranging from **WHITE** to **ROSE**)
- **SCAN** (cycle through all colors)
- Sets of colors (**WARM**, **AMBIENT**, **CALM**)
- **CUSTOM** (customized illumination color)

Display color (display color setting)

You can select the desired colors for the display of this unit.
1 Press **M.C.** to display the setting mode.
2 Press **M.C.** to select the desired setting.
You can select any one of the options in the following list:
- Preset colors (ranging from **WHITE** to **ROSE**)
- **SCAN** (cycle through all colors)
- Sets of colors (**WARM**, **AMBIENT**, **CALM**)
- **CUSTOM** (customized illumination color)

Key & Display (key and display color setting)

You can select the desired colors for the keys and display of this unit.
1 Press **M.C.** to display the setting mode.
2 Press **M.C.** to select the desired setting.
You can select any one of the options in the following list:
- Preset colors (ranging from **WHITE** to **ROSE**)
- **SCAN** (cycle through all colors)

Phone color (phone color setting)

You can select the desired key colors to display when an incoming call is received.
1 Press **M.C.** to display the setting mode.
2 Press **M.C.** to select the desired setting.
You can select any one of the options in the following list:
- **Flashing** – The color selected from **Key color** flashes.
- **Flash FX 1** to **Flash FX 6** – The system automatically cycles through all available key colors for this unit. Select the desired mode.
- **OFF** – No change in key color made when incoming calls are received.

Notes
- When **SCAN** is selected, the system automatically cycles through the 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.

Customizing the illumination color

You can create custom illumination colors for both **Key color** and **Display color**.

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

2 **Turn M.C. to display ILLUMI and press to select.**

3 **Turn M.C. to display Key color or Display color. 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 **20** 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.

Note
You cannot create a custom illumination color while **SCAN**, **WARM**, **AMBIENT** or **CALM** is selected.

About MIXTRAX

MIXTRAX technology is used to insert a variety of sound effects in between songs, allowing you to experience your music as a nonstop mix complete with visual and lighting effects.

Notes
- Depending on the file/song, sound effects may not be added.
- MIXTRAX includes a MIXTRAX flashing color mode that when switched on turns the flashing colors on and off in time with the audio track. If you find the feature distracting while driving, please turn MIXTRAX off. Refer to *Operations using the MIXTRAX button* on page 9.

MIXTRAX menu

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

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

3   Turn M.C. to select the MIXTRAX function.
Once selected, the following MIXTRAX functions can be adjusted. The function is enabled when MIXTRAX is on.

SHORT PLAYBACK (short playback mode)

You can select the length of the playback time.
① Press **M.C.** to display the setting mode.
② Turn **M.C.** to select the desired setting.
  1.0 MIN (1.0 minute)—**1.5 MIN** (1.5 minutes)—
  2.0 MIN (2.0 minutes)—**2.5 MIN** (2.5 minutes)
  —**3.0 MIN** (3.0 minutes)—**Random** (random)
  —**OFF** (off)
• Turn this option **OFF** if you want to play a selection all the way through from start to finish.

FLASH AREA (flash area)

You can select areas for flashing colors.
① Press **M.C.** to display the setting mode.
② Turn **M.C.** to select the desired setting.
  KEY & DISPLAY (key and display)—**KEY** (key)
  —**OFF** (off)
• When **OFF** is selected, the color set under **IL-LUMI** is used as the display color.

Flashing Color (flash pattern)

You can select flashing color patterns.
① Press **M.C.** to display the setting mode.
② Turn **M.C.** to select the desired setting.
  You can select any one of the options in the following list:
  • **Sound Level Mode Color 1** to **Color 6** –
    Flashing colors will flash on and off in synchronization with the sound level in a song. Select the desired mode.
  • **Low Pass Mode Color 1** to **Color 6** –
    Flashing colors will flash on and off in synchronization with the bass level in a song. Select the desired mode.
  • **Flashing Color Random** – The pattern for the flashing colors is randomly selected from the sound level mode and low pass mode.
  • **Sound Level Mode Random** – The pattern for the flashing colors is randomly selected from the sound level mode.
  • **Low Pass Mode Random** – The pattern for the flashing colors is randomly selected from the low pass mode.

DISP EFFECT (display effect)

The MIXTRAX special effects display can be turned on or off.
① Press **M.C.** to select the desired setting.
  ON (MIXTRAX special effects display)—**OFF** (normal display)

CUT IN EFFECT (manual cut-in effect)

You can turn on or off the MIXTRAX sound effects while manually changing tracks.
① Press **M.C.** to select the desired setting.
  ON (on)—**OFF** (off)

MIX Settings (MIXTRAX settings)

For details, refer to *MIXTRAX settings* on this page.

MIXTRAX settings

You can change the settings for fixed sounds and sound effects.
• The fixed sound settings can be changed from **MIX Fixed**.
• The sound effect settings can be changed from any of the following menus:
  LOOP EFFECT, **Flanger EFFECT**,
  Echo EFFECT, and **Crossfade EFFECT**.

1   Display MIX Settings.

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

3   Turn M.C. to select the function.
Once selected, the following functions can be adjusted.

MIX Fixed (MIXTRAX sound effects)

The fixed sounds can be removed from MIXTRAX sound effects.
① Press **M.C.** to select the desired setting.
  ON (fixed sounds and sound effects)—**OFF** (sound effects)

LOOP EFFECT (loop effect)

The loop effect, which is inserted at the end of each song automatically, can be removed from the sound effect.
① Press **M.C.** to select the desired setting.
  ON (on)—**OFF** (off)

Flanger EFFECT (flanger effect)

The flanger effect can be removed from the sound effect.
① Press **M.C.** to select the desired setting.
  ON (on)—**OFF** (off)

Echo EFFECT (echoe effect)

The echo effect can be removed from the sound effect.
① Press **M.C.** to select the desired setting.
  ON (on)—**OFF** (off)

Crossfade EFFECT (crossfade effect)

The crossfade effect can be removed from the sound effect.
① Press **M.C.** to select the desired setting.
  ON (on)—**OFF** (off)

System menu

① Function display
  • Shows the function status.

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

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

3   Turn M.C. to select the system menu function.
Once selected, the following system menu functions can be adjusted.
  • **BT AUDIO**, **Clear memory**, **BT Version info.** and **APP CONNECT MODE** are not available for DEH-X7500HD and DEH-X7500S.
  • **APP CONNECT MODE** is not available when **Pandora** or **Apps** is selected as the source.

Language select (multi-language)

For your convenience, this unit offers a choice of several languages. You can select the language you prefer to use.
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 displays how much time has elapsed since the machine was turned on.
You can set a timer and an alarm.
① Press **M.C.** to select the desired 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 desired setting.
You can select any one of the options in the following list:
• **ON** – Category/song list can be used.
• **OFF** – File/folder list can be used.

Warning tone (warning tone setting)

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.

AUX (auxiliary input)

Activate this setting when using an auxiliary device connected to this unit.
① Press **M.C.** to turn **AUX** 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 Press **M.C.** to display the setting mode.
② Turn **M.C.** to adjust the contrast level.
0 to **15** is displayed as the level is increased or decreased.

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 (clearing the Bluetooth device data stored on this unit)

Bluetooth device data stored on this unit can be cleared. To protect your personal information, clear the device memory before you pass the unit on to someone else. The following information will be deleted.
• Device list
• PIN code
• Call history
• Phone book
① Press **M.C.** to show the confirmation display.
YES is displayed. Clearing memory is now on standby.
If you do not want to clear the Bluetooth device data stored on this unit, turn **M.C.** to display **CANCEL** and press it again to select.
② Press **M.C.** to clear the memory.
Cleared is displayed and the Bluetooth device data is cleared.
• 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.

APP CONNECT MODE (APP connect mode setting)

Select an appropriate option for your smartphone.
① Press **M.C.** to select the desired setting.
Wired (for iPhone)—**Bluetooth** (for Android device)

Initial menu

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

2   Press and hold M.C. until the main menu appears in the display.

3   Turn M.C. to change the menu option and press to select INITIAL.

4   Turn M.C. to select the initial menu function.
Once selected, the following initial menu functions can be adjusted.
• **S/W UPDATE** is not available for DEH-X7500HD and DEH-X7500S.

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 16).
• 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.

Using this unit

Available accessories

S/W UPDATE (updating the software)

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

• Never turn the unit off while the Bluetooth software is being updated.

① Press **M.C.** to display the data transfer mode. Follow the on-screen instructions to finish updating the Bluetooth software.

System menu

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

2 Press and hold M.C. until the main menu appears in the display.

3 Turn M.C. to change the menu option and press to select SYSTEM.

4 Turn M.C. to select the system menu function.
For details, refer to *System menu* on page 18.

Using an AUX source

1 Insert the stereo mini plug into the AUX input jack.

2 Press SRC/OFF to select AUX as the source.

Note

AUX cannot be selected unless the auxiliary setting is turned on. For more details, refer to **AUX** *(auxiliary input)* on the previous page.

Turning the display off or on

● **Press and hold MIX/DISP OFF until the display turns on or off.**

If an unwanted display appears

Turn off the unwanted display using the procedures listed below.

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

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

3 Turn M.C. to display DEMO OFF and press to select.

4 Turn M.C. to switch to YES.

5 Press M.C. to select.

SiriusXM Satellite Radio

Only for DEH-X8500BS and DEH-X7500S
You can use this unit to control the SiriusXM Connect Vehicle Tuner (SXV200), which is sold separately.
For more information on how to install the SiriusXM Connect Vehicle Tuner, consult the installation guide included with the tuner.
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 www.siriusxm.com.

To subscribe to the SiriusXM Satellite Radio service

1 Switch the source to SiriusXM.
You should be able to tune in to Channel 1. If you cannot get Channel 1, make sure that your SiriusXM Connect Vehicle Tuner is installed correctly as described in the tuner installation guide.

2 Switch to Channel 0 and check the Radio ID.
You will need this number to activate your subscription. For details, refer to *Displaying the Radio ID* on the next page.

3 Activate the service either online or by phone.
• Go to www.siriusxm.com, and click on ACTIVATE RADIO to start the activation process.
• Call SiriusXM Listener Care at 1-800-XM-RADIO (1-800-967-2346) to activate.

■ As part of the activation process, the SiriusXM satellites will send an activation message to your SiriusXM Connect Vehicle Tuner. Once the tuner has received the message, this unit will display "**Subscription Updated**". Once the update is completed, you can start tuning in to the channels in your subscription.
The activation process usually takes 10 to 15 minutes but may take up to an hour in some cases. Do not turn off the unit while the activation message is displayed.

Basic operations
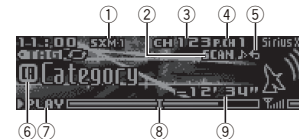
① SiriusXM band indicator
② Scan play indicator
③ SiriusXM channel number indicator
④ SiriusXM preset number indicator
⑤ Replay indicator
⑥ Title icon indicator
⑦ **PLAY/PAUSE** indicator
⑧ Progress bar
⑨ Buffer time

Selecting a band
① Press **BAND/**.
• Band can be selected from **SXM-1**, **SXM-2** or **SXM-3**.

Returning to the current live broadcast
① Press and hold **BAND/**.

Select a channel.
This function is available when **Channel** is selected in **Operate Mode**. For details, refer to **Operate Mode** (operation mode setting) on this page.
1 Turn **LEVER**.
• By turning and holding down **LEVER**, you can increase or decrease the channel number continuously.

Selecting a track
This function is available when **Replay** is selected in **Operate Mode**. For details, refer to **Operate Mode** (operation mode setting) on this page.
1 Turn **LEVER**.

Fast forwarding or reversing
This function is available when **Replay** is selected in **Operate Mode**. For details, refer to **Operate Mode** (operation mode setting) on this page.
1 Turn and hold down **LEVER** to the right or left.

Switching the display

Selecting the desired text information

● **Press ⤺/DISP.**

Note

Depending on the channel, text information can be changed.

Displaying the Radio ID

The SiriusXM Radio ID can be found by tuning to Channel 0. In addition, the Radio ID is located on the bottom of the SiriusXM Connect Vehicle Tuner.
Please note that the SiriusXM Radio ID does not include the letters I, O, S or F.

Scan play

Content scan

This unit will scan the channels to allow you to listen to the beginning of the songs from each track.
You can listen to recent broadcast tracks from the preset channels.
For details, refer to **Content Scan** (scanning the content) on this page.

Category scan

You can listen to the live broadcast from each channel in the current category.
For details, refer to Channel list categories on this page.

Switching to the channel currently playing in scan play
1 Press **M.C.**

Switching to the next song during the scan play
1 Turn **LEVER** to the right.

1 Press and hold **BAND/⤺**.

Quitting scan play
This unit will receive the selected channel before the scan play.
1 Press **BAND/⤺**.

List menu

You can select a channel from the list.

Selecting a channel from the channel list

You can select a channel from any of the available channels.

1 **Press ⚲ (list).**

2 **Turn M.C. to display All Channels and press to select.**

3 **Turn M.C. to select a channel.**
• Press ⚲ to change the display.
Channel name—artist name—song title—content information

4 **Press M.C. to receive the channel.**

Setting preset channels

You can store your favorite channels as presets and recall them later on.

1 **Press ⚲ (list).**

2 **Turn M.C. to display Presets and press to select.**

3 **Turn M.C. to select a preset channel.**

4 **Press and hold M.C. to store the current channel as a preset.**

5 **Press M.C. to recall the preset channel.**
■ You can tune the channel up or down manually by pressing ⚲ or ⚲.

Channel list categories

You can select a channel from the current category.
The available categories will depend on the available channels.

1 **Press ⚲ (list).**

2 **Turn M.C. to display Category and press to select.**

3 **Turn M.C. to select a channel.**

4 **Press M.C. to receive the channel.**
Press and hold **M.C.** to switch to scan play. For details, refer to Scan play on this page.

Function and operation

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.**
Once selected, the following functions can be adjusted.

Pause (pause)

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

Operate Mode (operation mode setting)

1 Press **M.C.** to select the desired setting.
Channel (channel)—**Replay** (Replay)
• You can also toggle between operation modes by pressing ⚲.

Content Scan (scanning the content)

1 Press **M.C.** to switch to scan play. For details, refer to Scan play on this page.

Tune Start (tune start)

You can select where to start the broadcast when switching to a preset channel.
1 Press **M.C.** to select the desired setting.
You can select any one of the options in the following list:
• **ON** – The broadcast will start from the beginning of a saved song/program.
• **OFF** – The broadcast will start from the current live program.

Parental Control (Parental Control)

For details, refer to Setting Parental Control on the next page.

Available accessories

Installation

Setting Parental Control

The SiriusXM Parental Control feature allows you to control access to channels that you consider inappropriate for younger listener.
When enabled, the Parental Control feature requires you to enter a passcode to tune to the locked channels.

1   Display Parental Control.

2   Press M.C. to display the passcode input screen.
The default passcode is 0000.

3   Turn M.C. to select a number.

4   Press M.C. to move the cursor to the next position.

5   After inputting passcode, press M.C.
You will be able to proceed to the next step if you enter the correct passcode.

6   Turn M.C. to select the function.
Once selected, the following functions can be adjusted.

Locked Channels (locking the channels)

Access to the current broadcast channel can be locked. You will need to enter your passcode in order to access a locked channel.
1 Press **M.C.** to select the desired setting.
2 Press **M.C.** to turn the lock on or off.

Clear all (clearing all channel locks)

You can clear the locks from all locked channels at the same time.
1 Press **M.C.** to select the desired setting.
2 Turn **M.C.** to switch to **YES**.
3 Press **M.C.**

**Edit Code** (changing the passcode)

You can change your passcode.
1 Press **M.C.** to display the setting mode.
Enter your current passcode.
• The default passcode is 0000.
2 Turn **M.C.** to select a number.
3 Press **M.C.** to move the cursor to the next position.
4 After inputting passcode, press **M.C.**
Enter a new passcode.
5 Turn **M.C.** to select a number.
6 Press **M.C.** to move the cursor to the next position.
7 After inputting passcode, press **M.C.**
The new passcode is saved.

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.

Ground wire   POWER AMP

*1
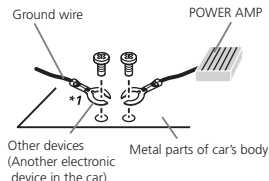
Other devices   Metal parts of car's body
(Another electronic
device in the car)
*1**Non supplied for this unit.**

🔧 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 multiple speakers.
• When this unit is on, control signals are sent through the blue/white cable. Connect this cable to the system remote control of an external power amp or the vehicle's auto-antenna relay control terminal (max. 300 mA 12 V DC). If the vehicle is equipped with a glass antenna, connect it to the antenna booster power supply terminal.
• Never connect the blue/white cable to the power terminal of an external power amp. Also, never connect it to the power terminal of the auto antenna. Doing so may result in battery drain or a malfunction.

This unit
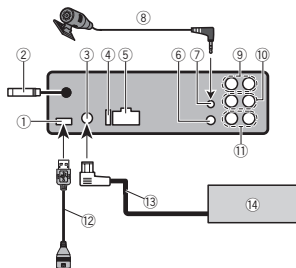

① USB port
② Antenna input
  15 cm (5-7/8 in.)
③ Sirius XM BUS input (DEH-X8500BS and DEH-X7500S only)
④ Fuse (10 A)
⑤ Power cord input
⑥ Wired remote input (DEH-X7500HD and DEH-X7500S only)
  Hard-wired remote control adapter can be connected (sold separately).
⑦ Microphone input (DEH-X8500BH and DEH-X8500BS only)
⑧ Microphone (DEH-X8500BH and DEH-X8500BS only)
  4 m (13 ft. 1 in.)
⑨ Rear output
⑩ Front output
⑪ Subwoofer output
⑫ USB cable
  1.5 m (4 ft. 11 in.)
⑬ SiriusXM BUS cable (sold separately)
⑭ SiriusXM Connect Vehicle Tuner (sold separately)

Power cord

Perform these connections when not connecting a rear speaker lead to a subwoofer.
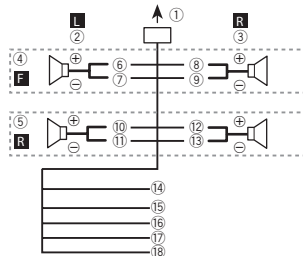
Perform these connections when using a subwoofer without the optional amplifier.
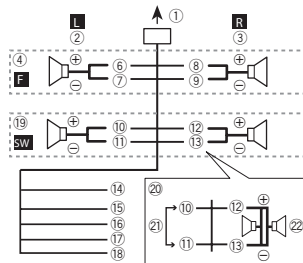
① To power cord input
② Left
③ Right
④ Front speaker
⑤ Rear speaker
⑥ White
⑦ White/black
⑧ Gray

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 (4 Ω)
⑳ When using a subwoofer of 70 W (2 Ω), 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 (4 Ω) × 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 19.
  The subwoofer output of this unit is monaural.

Power amp (sold separately)

Perform these connections when using the optional amplifier.
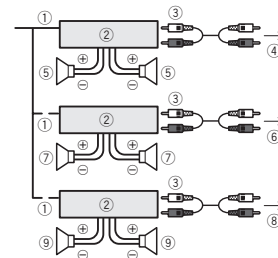
① System remote control
  Connect to Blue/white cable.
② Power amp (sold separately)
③ Connect with RCA cables (sold separately)
④ To Rear output
⑤ Rear speaker
⑥ To Front output
⑦ Front speaker
⑧ To subwoofer output
⑨ Subwoofer

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.

- 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°.

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.

Leave ample space
5 cm
5 cm
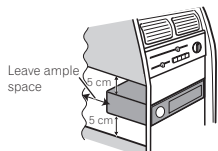
DIN front/rear mount

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.

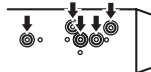**2   Secure the mounting sleeve by using a screwdriver to bend the metal tabs (90°) into place.**
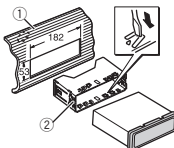
① Dashboard
② Mounting sleeve
■ Make sure that the unit is installed securely in place. An unstable installation may cause skipping or other malfunctions.

DIN Rear-mount

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

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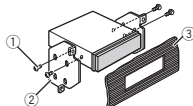
① Screw
② Mounting bracket
③ Dashboard or console
- Use either truss (5 mm × 8 mm) or flush surface (5 mm × 9 mm) screws, depending on the bracket screw holes.

Removing the unit

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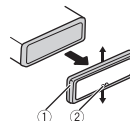
① Trim ring
② Notched tab
- Releasing the front panel allows easier access to the trim ring.
- When reattaching the trim ring, point the side with the notched tab down.

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.
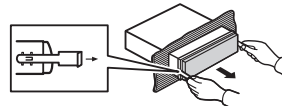
Securing the front panel

The front panel can be secured with the supplied screw.

① Screw

Installing the microphone

• *Only for DEH-X8500BH and DEH-X8500BS*

⚠ 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.)
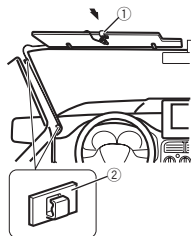
① Microphone clip
② Clamp
   Use separately sold clamps to secure the lead where necessary inside the vehicle.

When installing the microphone on the steering column

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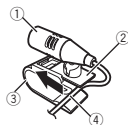
① Microphone
② Microphone base
③ Microphone clip
④ Fit the microphone lead into the groove.

■ Microphone can be installed without using microphone clip. In this case, detach the microphone base from the microphone clip. To detach the microphone base from the microphone clip, slide the microphone base.

2   Install the microphone clip on the steering column.

① Double-sided tape
② Install the microphone clip on the rear side of the steering column.
③ Clamp
   Use separately sold clamps to secure the lead where necessary inside the vehicle.

Adjusting the microphone angle

The microphone angle can be adjusted.

Additional information

Troubleshooting

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 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.
A subfolder is not played back.	Subfolders cannot be played when **Folder repeat** (folder repeat) is selected.	Select another repeat play range.
NO XXXX appears when a display is changed (**NO TITLE**, for example).	There is no embedded text information.	Switch the display or play another track/file.
	No text information can be obtained	• Switch the broadcast station. • Operate this unit in areas with get good reception condition.
The unit is malfunctioning. There is interference.	You are using a device, such as a cellular phone, that may cause audible interference.	Move electrical devices that may be causing the interference away from the unit.

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 use 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.

Error messages

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

Common

Message	Cause	Action
AMP ERROR	Unit fails to operate or speaker connection is incorrect; protective circuit is activated.	Check the speaker connection. If the message fails to disappear even after the engine is switched off/on, contact your dealer or an authorized Pioneer Service Station for assistance.

CD player

Message	Cause	Action
ERROR-07, 11, 12, 17, 30	The disc is dirty.	Clean the disc.
	The disc is scratched.	Replace the disc.
ERROR-10, 11, 12, 15, 17, 30, A0	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.
ERROR-15	The inserted disc is blank.	Replace the disc.
ERROR-23	Unsupported CD format.	Replace the disc.
FORMAT READ	Sometimes there is a delay between the start of playback and when you start to hear any sound.	Wait until the message disappears and you hear sound.

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

USB storage device/iPod

Message	Cause	Action
FORMAT READ	Sometimes there is a delay between the start of playback and when you start to hear any sound.	Wait until the message disappears and you hear sound.
NO AUDIO	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.
SKIPPED	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.

Additional information

English

Message	Cause	Action
PROTECT	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.
NOT COMPATIBLE	The USB device connected to is not supported by this unit.	• Connect a USB Mass Storage Class compliant device. • Disconnect your device and replace it with a compatible USB storage device.
	Non-compatible iPod	Disconnect your device and replace it with a compatible iPod.
CHECK USB	The USB connector or USB cable has short-circuited.	Check that the USB connector or USB cable is not caught in something or damaged.
CHECK USB	The connected USB storage device consumes more than 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.

Message	Cause	Action
CHECK USB	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.
ERROR-19	Communication failed.	Perform one of the following operations. –Turn the ignition switch OFF and back ON. –Disconnect the USB storage device. –Change to a different source. Then, return to the USB source.
	iPod failure.	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
ERROR-23	USB storage device was not formatted with FAT12, FAT16 or FAT32.	USB storage device should be formatted with FAT12, FAT16 or FAT32.

Message	Cause	Action
ERROR-16	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.
STOP	There are no songs in the current list.	Select a list that contains songs.
Not found	No related songs.	Transfer songs to the iPod.

Bluetooth device

Message	Cause	Action
ERROR-10	The power failed for the Bluetooth module of this unit.	Turn the ignition switch OFF and then to ACC or ON. If the error message is still displayed after performing the above action, please contact your dealer or an authorized Pioneer Service Station.

Pandora

Message	Cause	Action
ERROR-19	Communication failed.	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
Start up the Pandora Application	The Pandora application has not started running yet.	Start up the Pandora application from your iPhone.
Can't operate	The operation was disabled.	Run the same command for another track.
Try again later	Communications failed.	Try again later.
MAINTENANCE	Pandora system is undergoing maintenance.	Try again later.
Skip limit reached	Skip limit reached.	Do not exceed the skip limit.
Check Application	This version of the Pandora application is not supported.	Connect an iPhone that has a compatible version of the Pandora application installed.
Check Device	Device error message displayed in Pandora Application. Unable to play music from Pandora.	Please check your iPhone.

Additional information

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

SiriusXM Satellite Radio

Message	Cause	Action
Check Antenna	The antenna connection is incorrect.	Check the antenna connection. If the message fails to disappear even after the engine is switched off/on, contact your dealer or an authorized Pioneer Service Station for assistance.
Check Tuner	The SiriusXM Connect Vehicle Tuner connection is incorrect.	Check the tuner connection. If the message fails to disappear even after the engine is switched off/on, contact your dealer or an authorized Pioneer Service Station for assistance.

Message	Cause	Action
No Signal	The SiriusXM Connect Vehicle Tuner is having difficulty receiving the SiriusXM satellite signal.	• Verify that your vehicle is outdoors with a clear view of the southern sky. • Verify that the SiriusXM magnetic mount antenna is mounted on a metal surface on the outside the vehicle. • Move the SiriusXM antenna away from any obstructions.
Subscription Updated	This unit has detected a change in your SiriusXM subscription status.	Press any keys to clear the message.
Not Available	The channel that you have requested is not a valid SiriusXM channel.	Check the SiriusXM channel lineup.
Not Subscribed	The channel that you have requested is not included in your SiriusXM subscription package.	Check the content of your SiriusXM subscription package.
Channel Locked	Locked by the radio Parental Control feature.	Release the channel lock.

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.

Read the precautions for discs before using them.

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

Address any questions you have about your USB storage device to the manufacturer of the device.

Connections via USB hub are not supported.

Do not connect anything other than a USB storage device.

Firmly secure the USB storage device when driving. Do not let the USB storage device fall onto the floor, where it may become jammed under the brake or accelerator pedal.

Depending on the USB storage device, the following problems may occur.
- Operations may vary.
- The storage device may not be recognized.
- Files may not be played back properly.
- The device may cause audible interference when you are listening to the radio.

Additional information

Additional information

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.)

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 work properly 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.
• 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.

Additional information

Made for
- iPod touch 4th generation (software version 5.1.1)
- iPod touch 3rd generation (software version 5.1.1)
- iPod touch 2nd generation (software version 4.2.1)
- iPod touch 1st generation (software version 3.1.3)
- iPod classic 160GB (software version 2.0.4)
- iPod classic 120GB (software version 2.0.1)
- iPod classic (software version 1.1.2)
- iPod with video (software version 1.3.0)
- iPod nano 6th generation (software version 1.2)
- iPod nano 5th generation (software version 1.0.2)
- iPod nano 4th generation (software version 1.0.4)
- iPod nano 3rd generation (software version 1.1.3)
- iPod nano 2nd generation (software version 1.1.3)
- iPod nano 1st generation (software version 1.3.1)
- iPhone 4S (software version 5.1.1)
- iPhone 4 (software version 5.1.1)
- iPhone 3GS (software version 5.1.1)
- iPhone 3G (software version 4.2.1)
- iPhone (software version 3.1.2)

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

⌐: Folder
♫: Compressed audio file
01 to 05: Folder number
① to ⑥: Playback sequence

Level 1 Level 2 Level 3 Level 4
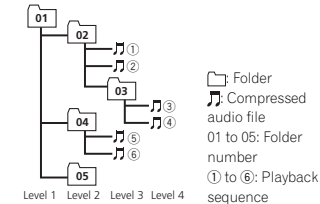
Disc
Folder selection sequence or other operation may differ depending on the encoding or writing software.

USB storage device
Playback sequence is the same as recorded sequence in the USB storage device.
To specify the playback sequence, the following method is recommended.
1 Create a file name that includes numbers that specify the playback sequence (e.g., 001xxx.mp3 and 099yyy.mp3).
2 Put those files into a folder.

Additional information

3 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)
- OPP (Object Push Profile)
- HFP (Hands Free Profile) 1.5
- HSP (Head Set Profile)
- PBAP (Phone Book Access Profile)
- A2DP (Advanced Audio Distribution Profile)
- AVRCP (Audio/Video Remote Control Profile) 1.0

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Additional information

SiriusXM Satellite Radio

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Pandora

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MIXTRAX

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Additional information

Specifications

General

Power source .... 14.4 V DC (10.8 V to 15.1 V al-
lowable)
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 ×
    18 mm
    (7-3/8 in. × 2-1/4 in. × 3/4 in.)
  D
    Chassis .... 178 mm × 50 mm ×
    165 mm
    (7 in. × 2 in. × 6-1/2 in.)
    Nose .... 170 mm × 46 mm ×
    18 mm
    (6-3/4 in. × 1-3/4 in. × 3/4 in.)
Weight .... 1.2 kg (2.6 lbs)

Audio

Maximum power output ... 50 W × 4
    50 W × 2/4 Ω + 70 W × 1/2 Ω
    (for subwoofer)
Continuous power output
.... 22 W × 4 (50 Hz to 15 000 Hz,
    5 % THD, 4 Ω load, both chan-
    nels 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
HPF:
  Frequency .... 50 Hz/63 Hz/80 Hz/100 Hz/
    125 Hz
  Slope .... −12 dB/oct
Subwoofer (mono):
  Frequency .... 50 Hz/63 Hz/80 Hz/100 Hz/
    125 Hz
  Slope .... −18 dB/oct

  Gain .... +6 dB to −24 dB
  Phase .... Normal/Reverse
Bass boost:
  Gain .... +12 dB to 0 dB

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 (4 Ω
and ≤ 1 % THD+N)
S/N ratio .... 91 dBA (reference: 1 W into
4 Ω)

Note

Specifications and the design are subject to
modifications without notice.
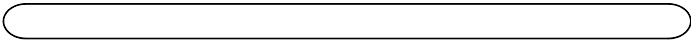
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