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CD RDS RECEIVER

Operation Manual

DEH-4200SD
DEH-3200UB

**Visit www.pioneer.co.uk (or www.pioneer.eu)
to register your product**

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Thank you for purchasing this PIONEER product

To ensure proper use, please read through this manual before using this product. It is especially important that you read and observe **WARNING**s and **CAUTION**s in this manual.

Please keep the manual in a safe and accessible place for future reference.

Installation 2
DIN front/rear-mount 2
- DIN Front-mount 2
- DIN Rear-mount 3
- Removing the unit 3
- Fastening the front panel 3

Connections 4

Before You Start 5
About this unit 5
In case of trouble 6
Demo mode 6
Resetting the microprocessor 6
Sound muting 6
About this manual 6

Operating this unit 7
Head unit 7
Optional remote control 7
Display indication 8
Basic Operations 8
Menu operations identical for function settings/audio adjustments/ initial settings/lists 9
Tuner 9
- Basic Operations 9
- Using PI Seek 9
- Using Auto PI Seek for preset stations 9
- Storing and recalling stations 10
- Switching the RDS display 10
- Advanced operations using special buttons 10
- Function settings 10
- PTY list 11

CD/CD-R/CD-RW and external storage devices (USB, SD) 11
- Basic Operations 11
- Displaying text information 12
- Selecting and playing files/ tracks from the name list 13
- Advanced operations using special buttons 13
- Function settings 13

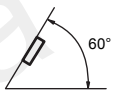
iPod 14
- Basic Operations 14
- Displaying text information 14
- Browsing for a song 14
- Advanced operations using special buttons 14
- Function settings 15

Audio Adjustments 16
Initial Settings 18
Other Functions 19
- Using the AUX source 19

Additional Information 20
Troubleshooting 20
Error messages 20
Handling guideline 21
Compressed audio compatibility (disc, USB, SD) 23
iPod compatibility 24
Sequence of audio files 24
Copyright and trademark 25
Specifications 26

Notes

- Check all connections and systems before final installation.
- Do not use unauthorized parts. The use of unauthorized parts may cause malfunctions.
- Consult with your dealer if installation requires drilling of holes or other modifications of 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°.



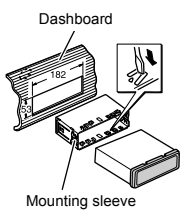
DIN front/rear-mount

This unit can be properly installed either from "Front" (conventional DIN Front-mount) or "Rear" (DIN Rear-mount installation, utilizing threaded screw holes at the sides of unit chassis). For details, refer to the following installation methods.

- 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.**



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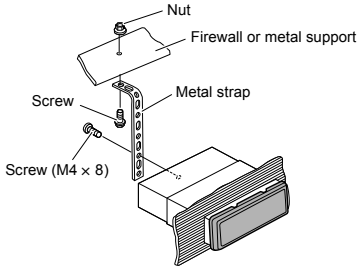
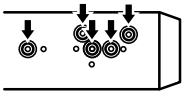
3. **Install the unit as illustrated.**



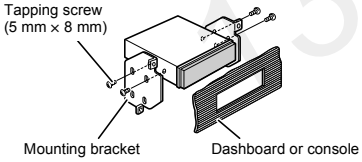
- Make sure that the unit is installed securely in place. An unstable installation may cause skipping or other malfunctions.

DIN Rear-mount

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

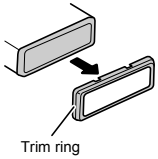


2. **Tighten two screws on each side.**



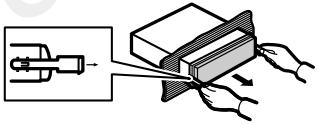
Removing the unit

1. **Extend top and bottom of the trim ring outwards to remove the trim ring. (When reattaching the trim ring, point the side with the groove down.)**



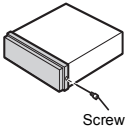
- Releasing the front panel allows easier access to the trim ring.

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.**



Fastening the front panel

If you do not plan to detach the front panel, the front panel can be fastened with supplied screw.



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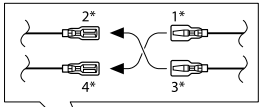
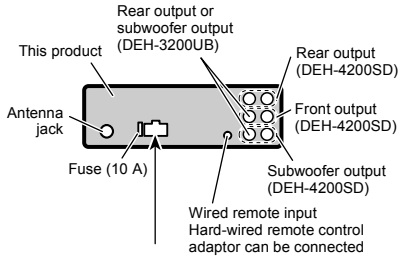
Notes
- Change the initial setting of this unit (refer to the operation manual). The subwoofer output of this unit is monaural (DEH-3200UD).
- When using a subwoofer of 70 W (2 Ω), be sure to connect with Violet and Violet/black leads of this unit. Do not connect anything with Green and Green/black leads.

Note
Depending on the kind of vehicle, the function of 2* and 4* may be different. In this case, be sure to connect 1* to 4* and 3* to 2*.



Connect leads of the same color to each other.



Wired remote input
Hard-wired remote control adaptor can be connected (sold separately).

Speaker leads
White: Front left ⊕
White/black: Front left ⊖
Gray: Front right ⊕
Gray/black: Front right ⊖
Green: Rear left ⊕ or subwoofer ⊕
Green/black: Rear left ⊖ or subwoofer ⊖
Violet: Rear right ⊕ or subwoofer ⊕
Violet/black: Rear right ⊖ or subwoofer ⊖

Blue/white
Connect to system control terminal of the power amp (max. 300 mA 12 V DC).

Blue/white (6*)
Connect to auto-antenna relay control terminal (max. 300 mA 12 V DC).

Blue/white (5*)

Yellow (2*)
Back-up (or accessory)

Yellow (1*)
Connect to the constant 12 V supply terminal.

Red (4*)
Accessory (or back-up)

Red (3*)
Connect to terminal controlled by ignition switch (12 V DC).

Black (chassis ground)
Connect to a clean, paint-free metal location.

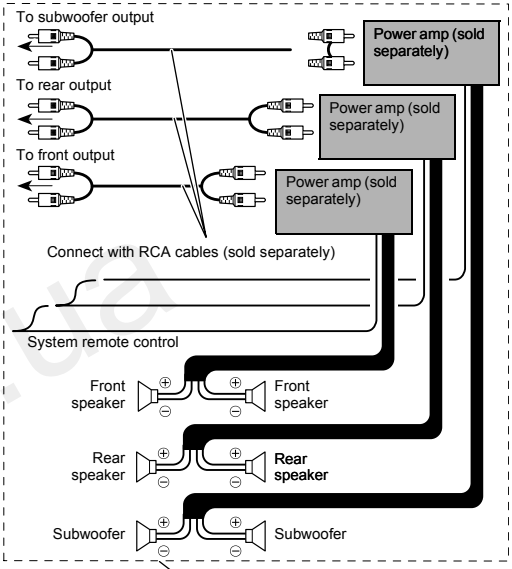
The pin position of the ISO connector will differ depending on the type of vehicle. Connect 5* and 6* when Pin 5 is an antenna control type. In another type of vehicle, never connect 5* and 6*.

ISO connector

Note
In some vehicles, the ISO connector may be divided into two. In this case, be sure to connect to both connectors.

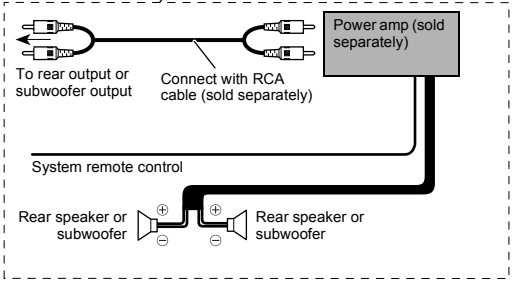
Yellow/black
If you use an equipment with Mute function, wire this lead to the Audio Mute lead on that equipment. If not, keep the Audio Mute lead free of any connections.

For DEH-4200SD



Perform these connections when using the optional amplifier.

For DEH-3200UB



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Connections

Notes

- When this unit is installed in a vehicle without ACC (accessory) position on the ignition switch, red cable must be wired to the terminal that can detect the operation of the ignition key. Otherwise, battery drain may result.
- Use this unit in other than the following conditions could result in fire or malfunction.

ACC position

No ACC position

- Use this unit in other than the following conditions could result in fire or malfunction.
  - Vehicles with a 12-volt battery and negative grounding.
  - Speakers with 50 W (output value) and 4 ohm to 8 ohm (impedance value).
- To prevent 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. To protect the wiring, wrap adhesive tape around them where they lie against metal parts.
  - Place all cables away from moving parts, such as gear shift and seat rails.
  - Place all cables away from hot places, such as near the heater outlet.
  - Do not pass the yellow cable through a hole into the engine compartment to connect to a battery.
  - 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 to other equipment. Current capacity of the cable is limited.
  - Use a fuse of the rating prescribed.
  - Never wire the speaker negative cable directly to ground.
  - Never band together multiple speaker's negative cables.
- Control signal is output through blue/white cable when this unit is powered on. Connect it to an external power amp's system remote control 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 blue/white cable to external power amp's power terminal. Also, never connect it to the power terminal of the auto antenna. Otherwise, battery drain or malfunction may result.
- Black cable is ground. This cable and other product's ground cable (especially, high-current products such as power amp) must be wired separately. Otherwise, fire or malfunction may result if they are accidentally detached.

Before You Start

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

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

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

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

About this unit

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

⚠ CAUTION

- Do not allow this unit to come into contact with liquids. Electrical shock could result. Also, damage to this unit, smoke, and overheating could result from contact with liquids.
- "CLASS 1 LASER PRODUCT"
  This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.
- The Pioneer CarStereo-Pass is for use only in Germany.
- 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.

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In case of trouble

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

Demo mode

Important

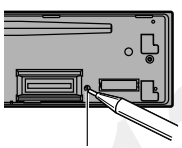
Failure to connect the red lead (ACC) of this unit to a terminal coupled with ignition switch on/off operations may lead to battery drain.

The demo automatically starts when the ignition switch is set to ACC or ON while the unit is turned off. Turning off the unit does not cancel demo mode. To cancel the demo mode, press ⮌/**DISP**/**SCRL**. Press ⮌/**DISP**/**SCRL** again to start. Operating the demo while the ignition switch is set to ACC may drain battery power.

Resetting the microprocessor

The microprocessor must be reset under the following conditions:

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



RESET button

1. **Remove the front panel.**
2. **Press RESET with a pen tip or other pointed instrument.**

Sound muting

Sound is muted automatically when:

- A call is made or received using a cell phone connected to this unit.
- Voice guidance is output from a connected Pioneer navigation unit.

The sound is turned off, **MUTE** is displayed and no audio adjustments are possible. Operation returns to normal when the phone connection or the voice guidance is ended.

About this manual

This manual describes operations of both DEH-4200SD and DEH-3200UB. Only DEH-4200SD features SD memory card functions, so the explanations for those functions do not refer to operations of DEH-3200UB.

In the following instructions, USB memories, USB portable audio players, and SD memory cards are collectively referred to as “external storage devices (USB, SD)” If only USB memories and USB portable audio players are indicated, they are collectively referred to as “USB storage devices”

In this manual, iPod and iPhone will be referred to as iPod.

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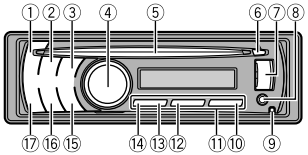
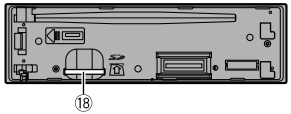
Head unit





Part	Part
① **SRC/OFF**	⑩ **6/PAUSE**
② **S.Rtrv**	⑪ **1** to **6**
③ 🔍 (list)	⑫ **3/**⇄
④ **MULTI-CONTROL (M.C.)**	⑬ **2/**⤮
⑤ Disc loading slot	⑭ **1/iPod**
⑥ ⏏ (eject)	⑮ ⮌**/DISP/SCRL**
⑦ USB port	⑯ **TA/NEWS**
⑧ AUX input jack (3.5 mm stereo jack)	⑰ **BAND/ESC**
⑨ Detach button	⑱ SD memory card slot Only for DEH-4200SD You can see the SD memory card slot if you remove the front panel.

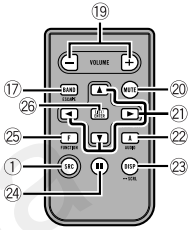
⚠ CAUTION

Use an optional Pioneer USB cable (CD-U51E) to connect the USB audio player/USB memory to the USB port. Since the USB audio player/USB memory is projected forward from the unit, it is dangerous to connect directly.
Do not use the unauthorized product.

Optional remote control

Only for DEH-4200SD.

The remote control CD-R320 is sold separately.



	Part	Operation
⑲	**VOLUME**	Press to increase or decrease volume.
⑳	**MUTE**	Press to mute. Press again to unmute.
㉑	**▲/▼/◄/►**	Press to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.
㉒	**AUDIO**	Press to select an audio function.
㉓	**DISP/SCRL**	Press to select different displays. Press and hold to scroll through the text information.
㉔	**II**	Press to pause or resume.
㉕	**FUNCTION**	Press to select functions. Press and hold to recall the initial setting menu when the sources are off.
㉖	**LIST/ENTER**	Press to display the list depending on the source. While in the operating menu, press to control functions.

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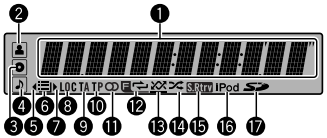
Display indication



	Indicator	State
❶	Main display section	Tuner: band and frequency Built-in CD, external storage device (USB, SD) and iPod: elapsed playback time and text information
❷	(artist)	The disc (track) artist name is displayed. Artist search refinement on the iPod browsing function is in use.
❸	(disc)	The disc (album) name is displayed. Album search refinement on the iPod browsing function is in use.
❹	(song)	The track (song) name is displayed. A playable audio file has been selected while operating the list. Song search refinement on the iPod browsing function is in use.
❺	◄	An upper tier of folder or menu exists.
❻	(list)	The list function is operated.
❼	►	A lower tier of folder or menu exists. It flashes when a song/album related to the song currently playing is selected from iPod.
❽	**LOC**	The local seek tuning is on.
❾	**TA**	TA (traffic announcement standby) function is on.
❿	**TP**	A TP station is tuned in.
⓫	(stereo)	The selected frequency is being broadcasted in stereo.
⓬	(folder repeat)	Folder repeat is on. When repeat function is on, only is displayed.
⓭	(folder random)	Folder random is on. When random function is on, only is displayed.
⓮	(shuffle)	Shuffle or shuffle all function is on while the iPod source is being selected.
⓯	S.Rtrv (sound retriever)	The sound retriever function is on.
⓰	**iPod**	**CTRL** (control mode) is set to **iPod**.
⓱	(SD memory card)	*Only for DEH-4200SD.* SD/SDHC memory card is inserted.

Basic Operations

Important

- Handle gently when removing or attaching the front panel.
- Avoid subjecting the front panel to excessive shock.
- Keep the front panel out of direct sunlight and high temperatures.
- Remove any cables and devices attached to this unit before detaching the front panel to avoid damage to the device or vehicle interior.

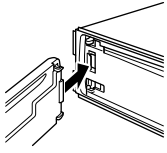
Removing the front panel to protect your unit from theft

1. **Press the detach button to release the front panel.**
2. **Grab the front panel and remove.**
3. **Always keep the detached front panel in the protection device such as protection case.**

Re-attaching the front panel

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

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



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

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

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Operating this unit

Turning the unit on

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

Turning the unit off

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

Selecting a source

- **Press SRC/OFF to cycle between:**

  DEH-4200SD

  TUNER (tuner) – **CD** (built-in CD player) – **USB** (USB)/**USB-iPod** (iPod) – **SD** (SD memory card) – **AUX** (AUX)

  DEH-3200UB

  TUNER (tuner) – **CD** (built-in CD player) – **USB** (USB)/**USB-iPod** (iPod) – **AUX** (AUX)

Adjusting the volume

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

Note

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

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

Returning to the previous display

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

- **Press ⮌/DISP/SCRL.**

Returning to the main menu

Returning to the top tier of list/category

- **Press and hold ⮌/DISP/SCRL.**

Returning to the ordinary display

Canceling the initial setting menu

Returning to the ordinary display from the list/category

- **Press BAND/ESC.**

Tuner

Basic Operations

Selecting a band

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

Manual tuning (step by step)

- **Push M.C. left or right.**

Seeking

- **Push and hold M.C. left or right, and then release.**

  You can cancel seek tuning by pushing **M.C.** left or right.

  While pushing and holding **M.C.** left or right, you can skip stations. Seek tuning starts as soon as you release **M.C.**

Note

- This unit's AF (alternative frequencies search) function can be turned on and off. AF should be off for normal tuning operation (refer to page 11).

Using PI Seek

If the tuner cannot find a suitable station, or reception status deteriorates, the unit automatically searches for a different station with the same programming. During the search, **PI seek** is displayed and sound is muted.

Using Auto PI Seek for preset stations

When preset stations cannot be recalled, the unit can be set to perform PI Seek during preset recall.

- The default setting for Auto PI Seek is off. Refer to "Auto PI (auto PI seek)" on page 18.

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Storing and recalling stations

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

Using preset tuning buttons

1. **When you find a station that you want to store in memory, press one of the preset tuning buttons (1 to 6) and hold until the preset number stops flashing.**
2. **Press one of the preset tuning buttons (1 to 6) to select the desired station.**

Using preset screen

1. **Press 🔍 to switch to the preset screen.**
2. **Use M.C. to store the selected frequency in memory.**
   Turn to change the preset number. Press and hold to store.
3. **Use M.C. to select the desired station.**
   Turn to change the station. Press to select.

Note
- You can also recall stored radio stations by pushing **M.C.** up or down during the frequency display.

Switching the RDS display

RDS (radio data system) contains digital information that helps search for the radio stations.

1. **Press ⮌/DISP/SCRL.**
   Program service name – PTY information – Frequency
   - PTY information and the frequency appear on the display for eight seconds.

Advanced operations using special buttons

Receiving traffic announcements

TA (traffic announcement standby) lets you receive traffic announcements automatically, regardless of the source you are listening to.

1. **Tune in a TP or enhanced other network's TP station.**
2. **Press TA/NEWS to turn traffic announcement standby on or off.**
3. **Use M.C. to adjust the TA volume when a traffic announcement begins.**
   The newly set volume is stored in memory and recalled for subsequent traffic announcements.
4. **Press TA/NEWS while a traffic announcement is being received to cancel the announcement.**
   The tuner returns to the original source but remains in the standby mode until TA/**NEWS** is pressed again.

Using news program interruption

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

- **Press TA/NEWS and hold to turn on or off news program interruption.**
  A news program can be canceled by pressing **TA/NEWS**.

Function settings

1. **Press M.C. to display the main menu.**
2. **Turn M.C. to change the menu option and press to select FUNCTION.**
3. **Turn M.C. to select the function.**
   After selecting, perform the following procedures to set the function.

BSM (best stations memory)

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

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

Regional (regional)

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

- **Press M.C. to turn the regional function on or off.**

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Local (local seek tuning)

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

1. **Press M.C. to display the setting mode.**
2. **Turn M.C. to select the desired setting.**

   FM: **OFF** – **Level1** – **Level2** – **Level3** – **Level4**

   MW/LW: **OFF** – **Level1** – **Level2**

   Larger setting number is higher level. The highest level setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.
3. **Press M.C. to confirm the selection.**

PTY search (program type selection)

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

1. **Press M.C. to display the setting mode.**
2. **Turn M.C. to select the desired setting.**

   News/Info – **Popular** – **Classics** – **Others**
3. **Press M.C. to begin the search.**

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

   PTY (program type ID code) information is listed in the following section. Refer to page 11.

   The program of some stations may differ from that indicated by the transmitted PTY.

   If no station is broadcasting the type of program you searched for, **NOT FOUND** is displayed for about two seconds and then the tuner returns to the original station.

Traffic (traffic announcement standby)

- **Press M.C. to turn traffic announcement standby on or off.**

AF (alternative frequencies search)

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

- **Press M.C. to turn AF on or off.**

News (news program interruption)

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

Notes
- If MW/LW band is selected, only **BSM** or **Local** is available.
- Operation is complete even if the menu is cancelled before being confirmed.

PTY list

News/Info

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

Popular

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

Classics

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

Others

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

CD/CD-R/CD-RW and external storage devices (USB, SD)

The SD memory card is only available for DEH-4200SD.

Basic Operations

Playing a CD/CD-R/CD-RW

1. **Insert the disc, label side up, into the disc loading slot.**
2. **If a disc has already been inserted, press SRC/OFF to select the built-in CD player.**

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Ejecting a CD/CD-R/CD-RW

- **Press ⏏ (eject).**

Playing songs on a USB storage device

1. **Open the USB connector cover.**
2. **Plug in the USB storage device using a USB cable.**

Stop playing a USB storage device

- **You may disconnect the USB storage device at anytime.**

Playing songs on an SD memory card

1. **Remove the front panel.**
2. **Insert an SD memory card into the SD card slot.**
   Insert it with the contact surface facing down and press the card until it clicks and completely locks.
3. **Re-attach the front panel.**
4. **Press SRC/OFF to select SD as the source.**
   Playback will start.

Stop playing an SD memory card

1. **Remove the front panel.**
2. **Press the SD memory card until it clicks.**
   The SD memory card is ejected.
3. **Pull out the SD memory card.**
4. **Re-attach the front panel.**

Selecting a folder

- **Push M.C. up or down.**

Selecting a track

- **Push M.C. left or right.**

Fast forwarding or reversing

- **Push and hold M.C. left or right.**

Returning to root folder

- **Press and hold BAND/ESC.**

Switching between compressed audio and CD-DA

- **Press BAND/ESC.**

Notes
- When playing compressed audio, there is no sound during fast forward or reverse.
- USB portable audio players that can be charged via USB will be recharged when plugged in and the ignition switch is set to ACC or ON.
- Disconnect USB storage device from unit when not in use.
- If plug and play is on and a USB storage device is present, depending on the type of device, the source may switch to **USB** automatically when you turn on the engine. Please change plug and play setting as necessary. Refer to “USB PnP (plug and play)” on page 18.

Displaying text information

Selecting the desired text information

- **Press ⮌/DISP/SCRL.**

  CD TEXT discs: Track number and play time – disc title – disc artist name – track title – track artist name

  WMA/MP3/AAC: Play time – folder name – file name – track title – artist name – album title – genre – comment – bit rate – folder and track numbers

  WAV: Play time – folder name – file name – track title – artist name – album title – genre – comment – sampling frequency – folder and track numbers

Scrolling the text information to the left

- **Press and hold ⮌/DISP/SCRL.**

Notes
- Incompatible text stored with the audio file may not be displayed or may be displayed incorrectly.
- Depending on the version of iTunes used to write MP3/AAC files onto a disc, comment information may be incorrectly displayed.
- When Windows Media Player 11 is used to encode the WAV files, text information can be displayed.
- When playing back VBR (variable bit rate)-recorded WMA files, the average bit rate value is displayed.
- When playing back VBR (variable bit rate)-recorded MP3 files, **VBR** is displayed instead of bit rate value.
- 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.

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Selecting and playing files/tracks from the name list

1. **Press 🔍 to switch to the file/track name list mode.**
2. **Use M.C. to select the desired file name (or folder name).**

Changing file or folder name

- **Turn M.C.**

Playing

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

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

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

Playing a song in the selected folder

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

Note
- Track title list will display the list of track titles on a CD TEXT disc.

Advanced operations using special buttons

Selecting a repeat play range

- **Press 3/🔁 to cycle between the following:**

  CD/CD-R/CD-RW
  - **Disc** – Repeat all tracks
  - **Track** – Repeat the current track
  - **Folder** – Repeat the current folder

  External storage device (USB, SD)
  - **All** – Repeat all files
  - **Track** – Repeat the current file
  - **Folder** – Repeat the current folder

Playing tracks in random order

- **Press 2/🔀 to turn random play on or off.**

  Tracks in a selected repeat range are played in random order.

Pausing playback

- **Press 6/PAUSE to pause or resume.**

Enhancing compressed audio and restoring rich sound (sound retriever)

- **Press S.Rtrv to cycle between:**

  OFF (off) – **1** – **2**

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

Function settings

1. **Press M.C. to display the main menu.**
2. **Turn M.C. to change the menu option and press to select FUNCTION.**
3. **Turn M.C. to select the function.**

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

Repeat (repeat play)

1. **Press M.C. to display the setting mode.**
2. **Turn M.C. to select a repeat play range.**

   For details, refer to “Selecting a repeat play range” on page 13.
3. **Press M.C. to confirm the selection.**

Random (random play)

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

Pause (pause)

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

S.Rtrv (sound retriever)

Automatically enhances compressed audio and restores rich sound.

1. **Press M.C. to display the setting mode.**
2. **Turn M.C. to select the desired setting.**

   For details, refer to “Enhancing compressed audio and restoring rich sound (sound retriever)” on page 13.
3. **Press M.C. to confirm the selection.**

Note
- Operation is complete even if the menu is cancelled before being confirmed.

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iPod

Basic Operations

Playing songs on iPod

1. **Open the USB connector cover.**
2. **Plug in an iPod using an iPod Dock Connector to USB Cable.**

Selecting a track (chapter)

- **Push M.C. left or right.**

Fast forwarding or reversing

- **Push and hold M.C. left or right.**

Notes
- The iPod's battery will be charged if the ignition switch is set to ACC or ON, while connected.
- While the iPod is connected to this unit, the iPod cannot be turned on or off unless the control mode is set to **iPod**.
- Disconnect headphones from the iPod before connecting to this unit.
- The iPod will turn off about two minutes after the ignition switch is set to OFF.

Displaying text information

Selecting the desired text information

- **Press ⮌/DISP/SCRL.**
  Play time – song title – artist name – album title – number of songs

Scrolling the text information to the left

- **Press and hold ⮌/DISP/SCRL.**

Note
- Incompatible text saved on the iPod will not be displayed by the unit.

Browsing for a song

1. **Press 🔍 to switch to the top menu of the list search.**
2. **Use M.C. to select a category/song.**

Changing the name of song or category

- **Turn M.C.**
  Playlists – artists – albums – songs – podcasts – genres – composers – audiobooks

Playing

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

Seeing a list of songs in the selected category

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

Playing a song in the selected category

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

Searching by alphabet in the list

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.**
   If alphabet search is aborted, **NOT FOUND** is displayed.

Note
- Depending on the number of files in the iPod, there may be a delay when displaying a list.

Advanced operations using special buttons

Selecting a repeat play range

- **Press 3/🔁 to cycle between the following:**
  - **One** – Repeat the current song
  - **All** – Repeat all songs in the selected list

Playing all songs in a random order (shuffle all)

- **Press 2/🔀 to turn shuffle all on.**

Pausing playback

- Refer to "Pausing playback" on page 13.

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Playing songs related to the currently playing song

You can play songs from the following lists.

– Album list of currently playing artist
– Song list of currently playing album
– Album list of currently playing genre

1. **Press and hold M.C. to switch to the link play mode.**
2. **Turn M.C. to change the mode; press to select.**
   - **Artist** – Plays an album of currently playing artist.
   - **Album** – Plays a song of currently playing album.
   - **Genre** – Plays an album of currently playing genre.

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

The selected song/album may be cancelled if you operate functions other than link search (e.g. fast forward and reverse).

If no related albums/songs are found, **NOT FOUND** is displayed.

Depending on the song selected to play, the end of the currently playing song and the beginning of the selected song/album may be cut off.

Operating this unit's iPod function from your iPod

This function is not compatible with the following iPod models.

– iPod nano 1st generation
– iPod 5th generation

This unit's iPod function allows you to conduct operations from your iPod and listen to it using your car's speakers.

- **Press 1/iPod to switch the control mode.**
  - **iPod** – This unit's iPod function can be operated from the connected iPod.
  - **Audio** – This unit's iPod function can be operated from this unit.

Enhancing compressed audio and restoring rich sound (sound retriever)

Refer to "Enhancing compressed audio and restoring rich sound (sound retriever)" on page 13.

Function settings

1. **Press M.C. to display the main menu.**
2. **Turn M.C. to change the menu option and press to select FUNCTION.**
3. **Turn M.C. to select the function.**

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

Repeat (repeat play)

- Refer to "Repeat (repeat play)" on page 13.
  However the repeat range is different from CD/external storage device. Refer to "Selecting a repeat play range" on page 14.

Shuffle (shuffle)

1. **Press M.C. to display the setting mode.**
2. **Turn M.C. to select your favorite setting.**
   - **Songs** – Play back songs in the selected list in random order.
   - **Albums** – Play back songs from a randomly selected album in order.
   - **OFF** – Cancel random play.
3. **Press M.C. to confirm the selection.**

Shuffle all (shuffle all)

- **Press M.C. to turn shuffle all on.**
  To turn off, set **Shuffle** in the **FUNCTION** menu to 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 page 15.

CTRL (control mode)

- **Press M.C. to select your favorite setting.**
  For details about the settings, refer to "Operating this unit's iPod function from your iPod" on page 15.

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Pause (pause)

- Refer to “Pause (pause)” on page 13.

Audiobooks (audiobook speed)

The playback speed of audiobook can be changed.

1. **Press M.C. to display the setting mode.**
2. **Turn M.C. to select your favorite setting.**
   - **Faster** – Playback faster than normal speed
   - **Normal** – Playback in normal speed
   - **Slower** – Playback slower than normal speed
3. **Press M.C. to confirm the selection.**

S.Rtrv (sound retriever)

- Refer to “S.Rtrv (sound retriever)” on page 13.

Notes

- Operation is complete even if the menu is cancelled before being confirmed.
- Switching the control mode to **iPod** pauses song playback. Operate the iPod to resume playback.
- The following functions are still accessible from the unit even if the control mode is set to **iPod**.
  - Volume
  - Fast forward/reverse
  - Track up/down
  - Pausing
  - Switching the text information
- When the control mode is set to **iPod**, operations are limited as follows:
  - Only **CTRL** (control mode), **Pause** (pause) and **S.Rtrv** (sound retriever) functions are available.
  - Browse function cannot be operated from this unit.

Audio Adjustments

1. **Press M.C. to display the main menu.**
2. **Turn M.C. to change the menu option and press to select AUDIO.**
3. **Turn M.C. to select the audio function.**

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

FAD/BAL (fader/balance adjustment)

1. **Press M.C. to display the setting mode.**
2. **Press M.C. to cycle between fader and balance.**
3. **Turn M.C. to adjust the speaker balance.**

   Adjustment range (front/rear): **F-F15** to **F-R15**

   Adjustment range (left/right): **B-L15** to **B-R15**
   - **F-0** is the proper setting when only two speakers are used.
   - *Only for DEH-3200UB.*
     When the rear output setting and preout setting are **SUBW**, you cannot adjust front/rear 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**
   - When **Flat** is selected no adjustments are made to the sound.
3. **Press M.C. to confirm the selection.**

Graphic EQ (equalizer adjustment)

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

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

1. **Press M.C. to display the setting mode.**
2. **Press M.C. to cycle between equalizer band and level.**
3. **Press M.C. to switch to equalizer band and then turn M.C. to select.**

   100Hz – **315Hz** – **1.25kHz** – **3.15kHz** – **8kHz**
4. **Press M.C. to switch to level and then turn M.C. to adjust.**

   Adjustment range: **+6** to **–6**

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Loudness (loudness)

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

1. **Press M.C. to display the setting mode.**
2. **Turn M.C. to select the desired setting.**
   OFF (off) – **Low** (low) – **Mid** (mid) – **High** (high)
3. **Press M.C. to confirm the selection.**

SW setting 1 (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. **Turn M.C. to select the desired setting.**
   Normal (normal phase) – **Reverse** (reverse phase) – **OFF** (subwoofer off)
3. **Press M.C. to confirm the selection.**

SW setting 2 (subwoofer adjustment)

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

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 cut-off frequency and output level of subwoofer.**
3. **Press M.C. to switch to cut-off frequency and then turn M.C. to select cut-off frequency.**
   50Hz – **63Hz** – **80Hz** – **100Hz** – **125Hz**
4. **Press M.C. to switch to output level and then turn M.C. to adjust output level.**
   Adjustment range: **+6** to **-24**

HPF setting (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. **Turn M.C. to select cut-off frequency.**
   OFF (off) – **50Hz** – **63Hz** – **80Hz** – **100Hz** – **125Hz**
3. **Press M.C. to confirm the selection.**

Bass booster (bass boost)

1. **Press M.C. to display the setting mode.**
2. **Turn M.C. to adjust the level.**
   Adjustment range: **0** to **+6**
3. **Press M.C. to confirm the selection.**

SLA (source level adjustment)

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

- When selecting FM as the source, you cannot switch to **SLA**.
- Settings are based on the FM volume level, which remains unchanged.
  Before adjusting source levels, compare the FM volume level with the level of the source you wish to adjust.
- The AM volume level can also be adjusted with source level adjustments.

1. **Press M.C. to display the setting mode.**
2. **Turn M.C. to adjust the source volume.**
   Adjustment range: **+4** to **–4**
3. **Press M.C. to confirm the selection.**

Note
- Operation is complete even if the menu is cancelled before being confirmed.

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Initial Settings

Important

Power save mode is cancelled if the vehicle battery is disconnected and will need to be turned back on once the battery is reconnected. When power save is off, depending on connection methods, the unit may continue to draw power from the battery if your vehicle's ignition switch doesn't have an ACC (accessory position).

1. **Press SRC/OFF and hold until the unit turns off.**
2. **Press SRC/OFF and hold until the initial setting menu appears in the display.**
3. **Turn M.C. to select the initial setting.**

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

FM step (FM tuning step)

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

1. **Press M.C. to display the setting mode.**
2. **Turn M.C. to select the FM tuning step.**

   100kHz (100 kHz) – **50kHz** (50 kHz)
3. **Press M.C. to confirm the selection.**

Auto PI (auto PI seek)

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

- **Press M.C. to turn Auto PI seek on or off.**

AUX (auxiliary input)

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

- **Press M.C. to turn AUX on or off.**

USB PnP (plug and play)

This setting allows you to switch your source to **USB/USB-iPod** automatically.

- **Press M.C. to turn the plug and play on or off.**

  ON – When USB storage device/iPod is connected, the source is automatically switched to **USB/USB-iPod**. If you disconnect your USB storage device/iPod, this unit's source is turned off.

  OFF – When USB storage device/iPod is connected, the source is not switched to **USB/USB-iPod** automatically. Please change the source to **USB/USB-iPod** manually.

Brightness (display brightness setting)

1. **Press M.C. to display the setting mode.**
2. **Turn M.C. to switch the brightness setting.**

   High (high) – **Low** (low)
3. **Press M.C. to confirm the selection.**

SW control (rear output and subwoofer setting)

Only for DEH-4200SD.

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

1. **Press M.C. to display the setting mode.**
2. **Turn M.C. to change the setting.**

   Rear SP: Full – SUBW
3. **Press M.C. to confirm the selection.**

   Only for DEH-3200UB.

   The rear speaker leads output (**Rear SP**) and RCA output (**Preout**) of DEH-3200UB can be used for full-range speaker (**Rear SP** :**Full**/**Preout** :**Rear**) or subwoofer (**Rear SP** :**SUBW**/**Preout** :**SUBW**) connection. If you switch to **Rear SP** :**SUBW**, you can connect a rear speaker lead directly to a subwoofer without using an auxiliary amp.

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Initially, **Rear SP** is set for rear full-range speaker connection (**Full**). When **Rear SP** :**Full** is selected, you can connect the RCA output to a subwoofer. In this case, you can select whether to use the subwoofer controller's (low pass filter, phase) built-in **Preout** :**SUBW** or the auxiliary **Preout** :**Rear**.

1. **Press M.C. to display the setting mode.**
2. **Press M.C. to cycle between as following:**
   Rear SP/Preout – Full (SUBW)/SUBW(Rear)
3. **Turn M.C. to change the setting.**
   Rear SP: Full – SUBW
   Preout: SUBW – Rear
   - Even if you change this setting, there is no output unless you turn the subwoofer output on (refer to "SW setting 1 (subwoofer on/off setting)" on page 17).
   - If you change this setting, subwoofer output in the audio menu will return to the factory settings.
4. **Press M.C. to confirm the selection.**

DEMO (demo display setting)

- **Press M.C. tp turn the demo display on or off.**

Ever SCRL (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.

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

Title (multi language)

This unit can display them even if they are embedded in a European language or Russian.

Text information such as title name, artist name or comment can be recorded on a compressed audio disc.

- If the embedded language and the selected language setting are not the same, text information may not be displayed properly.
- Some characters may not be displayed properly.

1. **Press M.C. to display the setting mode.**
2. **Turn M.C. to select the desired setting.**
   EURO (European) – **RUSSIA** (Russian)
3. **Press M.C. to confirm the selection.**

PowerSave (power save)

Switching this function on enables you to reduce the consumption of battery power.

Turning on the source is the only operation allowed when this function is on.

- **Press M.C. to turn the power save on or off.**

Note
- If **PowerSave** is on, **DEMO** cannot be selected.

Other Functions

Using the 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 page 18.

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Troubleshooting

Symptom	Cause	Action (See)
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 selecting another folder or track, or when fast forwarding/ reversing.	Select the repeat play range again.
A subfolder is not played back.	Subfolders cannot be played when **Folder** (folder repeat) is selected.	Select another repeat play range.
NO XXXX appears when a display is changed (e.g., **NO TITLE**).	No text information embedded	Switch the display or play another track/file.
The display is illuminated when the unit is turned off.	Demo mode is on.	Press ⮌/**DISP**/**SCRL** to cancel demo mode.
The unit is malfunctioning. There is interference.	You are using a device, such as a cell phone, that transmits electromagnetic waves near the unit.	Move electrical devices that may be causing the interference away from the unit.

Error messages

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

Built-in CD Player

Message	Cause	Action
ERROR-11, 12, 17, 30	Dirty disc	Clean disc.
	Scratched disc	Replace disc.
ERROR-10, 11, 12, 15, 17, 30, A0	Electrical or mechanical	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 disc.
ERROR-22, 23	Unsupported CD format	Replace disc.
Format read	There is sometimes 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	The inserted disc does not contain any playable files	Replace disc.
SKIPPED	The inserted disc contains DRM protected WMA files	Replace disc.
PROTECT	All the files on the inserted disc are embedded with DRM	Replace disc.

External storage device (USB, SD)

Message	Cause	Action
NO DEVICE	When plug and play is off, no USB storage device is connected.	• Turn the plug and play on. • Connect a compatible USB storage device.
Format read	There is sometimes 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	No songs	Transfer the audio files to the external storage device and connect.
	The connected USB storage device has security enabled	Follow the USB storage device instructions to disable the security.
SKIPPED	The external storage device in use contains WMA files embedded with Windows Media™ DRM 9/10	Play an audio file not embedded with Windows Media DRM 9/10.
PROTECT	All the files in the external storage device are embedded with Windows Media DRM 9/10	Transfer audio files not embedded with Windows Media DRM 9/10 to the external storage device and connect.
N/A USB	The USB storage device connected to is not supported by this unit.	Connect a USB Mass Storage Class compliant device.
	Not compatible USB device	Disconnect your device and replace it with a compatible USB storage device.
CHECK USB	The USB connector or USB cable has short-circuited.	Check that the USB connector or USB cable is not caught in something or damaged.
	The connected USB storage device consumes more than 500 mA (maximum allowable current).	Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect only compliant USB storage devices.

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External storage device (USB, SD)

Message	Cause	Action
N/A SD	Not compatible SD storage device	Remove your device and replace it with a compatible SD storage device.
ERROR-19	Communication failure	Perform one of the following operations. – Turn the ignition switch OFF and back ON. – Disconnect or eject the external storage device. – Change to a different source. Then, return to the USB or SD source.
ERROR-23	USB storage device is not formatted with FAT12, FAT16 or FAT32	USB storage device should be formatted with FAT12, FAT16 or FAT32.

iPod

Message	Cause	Action
NO DEVICE	When plug and play is off, no USB storage device or iPod is connected.	• Turn the plug and play on. • Connect a compatible iPod.
Format read	There is sometimes a delay between the start of playback and when you start to hear any sound	Wait until the message disappears and you hear sound.
ERROR-19	Communication failure	Disconnect the cable from iPod. Once iPod's main menu is displayed, reconnect cable. Reset the iPod.
	iPod failure	Disconnect the cable from iPod. Once iPod's main menu is displayed, reconnect cable. Reset the iPod.
ERROR-16	Old iPod firmware versions	Update the iPod version.
	iPod failure	Disconnect the cable from iPod. Once iPod's main menu is displayed, reconnect cable. Reset the iPod.
N/A USB	Not compatible iPod	Disconnect your device and replace it with a compatible iPod.

Message	Cause	Action
CHECK USB	iPod operates correctly but does not charge	Check if the connection cable for iPod 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.
STOP	No songs on the iPod	Transfer songs to iPod.
	No songs in the current list	Select a list that contains songs.

Handling guideline

Discs and player

- Use only discs featuring either of following two logos.

- Use 12-cm disc. Do not use 8-cm disc or an adapter for 8-cm disc.
- 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/CD-RW disc playback is not possible.
- Do not touch the recorded surface of the discs.
- Store discs in their cases when not in use.
- Avoid leaving discs in excessively hot environments including under direct sunlight.
- Do not attach labels, write on or apply chemicals to the surface of the discs.
- To clean a CD, wipe the disc with a soft cloth outward from the center.

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- Condensation may temporarily impair the player's performance. Leave it to adjust to the warmer temperature for about one hour. Also, wipe any damp discs 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.

External storage device (USB, SD)

- Address any questions you have about your external storage device (USB, SD) to the manufacturer of the device.
- Do not leave the external storage device (USB, SD) in any place with high temperatures.
- Depending on the external storage device (USB, SD), the following problems may occur.
  - Operations may vary.
  - This unit may not recognize the storage device.
  - The file may not be played back properly.

USB storage device

- Connections via a 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.
  - The device may generate noise in the radio.

SD memory card

- This unit supports only the following SD memory cards.
  - SD
  - miniSD
  - microSD
  - SDHC
- Keep the SD memory card out of the reach of children. Should the SD memory card be swallowed, consult a doctor immediately.
- Do not touch the connectors of the SD memory card directly with your fingers or with any metal device.
- Do not insert anything other than an SD memory card into the SD card slot. If a metal object (e.g. a coin) is inserted into the slot, the internal circuits may break and cause malfunctions.
- When inserting a miniSD or microSD, use an adapter. Do not use an adapter which has metal parts other than the connectors exposed.
- Do not insert a damaged SD memory card (e.g. warped, label peeled off) as it may not be ejected from the slot.
- Do not try to force an SD memory card into the SD card slot as the SD memory card or this unit may be damaged.
- When you eject an SD memory card, press it and hold until it clicks. It is dangerous to press the SD memory card and release your finger immediately as the SD card may shoot out of the slot and hit you in the face, etc. If the SD memory card shoots out of the slot, it may go missing.

iPod

- Do not leave the iPod in direct sunlight for extended amounts of time. Extended exposure to direct sunlight can result in iPod malfunction due to the resulting high temperature.
- Do not leave the iPod in any place with high temperatures.
- 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.
- For details, refer to the iPod's manuals.
- 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 connecting the iPod to this unit.

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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.

Compressed audio compatibility (disc, USB, SD)

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: No

MP3

- File extension: .mp3
- Bit rate: 8 kbps to 320 kbps
- Sampling frequency: 8 kHz to 48 kHz (32 kHz, 44.1 kHz, 48 kHz for emphasis)
- Compatible ID3 tag version: 1.0, 1.1, 2.2, 2.3, 2.4 (ID3 tag Version 2.x is given priority over Version 1.x.)
- M3u playlist: No
- MP3i (MP3 interactive), mp3 PRO: No

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: No
- AAC file bought on the iTunes Store (.m4p file extension): No

Supplemental information

- Only the first 32 characters can be displayed as a file name (including the file extension) or a folder name.
- This unit may not operate correctly depending on the application used to encode WMA files.
- There may be a slight delay when starting playback of audio files embedded with image data.
- Russian text to be displayed on this unit should be encoded with the following character sets:
  - Unicode (UTF-8, UTF-16)
  - Character sets other than Unicode that are used in a Windows environment and are set to Russian in the multi-language setting

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: Yes
- Packet write data transfer: No
- Regardless of the length of blank section between the songs of the original recording, compressed audio discs play with a short pause between songs.

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External storage device (USB, SD)

- 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: No
- Partitioned external storage device (USB, SD): Only the first playable partition can be played.
- There may be a slight delay when starting playback of audio files on an external storage device (USB, SD) with numerous folder hierarchies.

SD memory card

- There is no compatibility for Multi Media Cards (MMC).
- Compatibility with all SD memory cards is not guaranteed.
- This unit is not compatible with SD-Audio.

⚠ CAUTION

Pioneer accepts no responsibility for data lost on the USB memory/USB portable audio player/SD memory card/SDHC memory card even if that data is lost while using this unit.

iPod compatibility

- This unit supports only the following iPod models. Supported iPod software versions are shown below. Older versions may not be supported.
  - iPod nano 4th generation (software version 1.0.3)
  - iPod nano 3rd generation (software version 1.1.3)
  - iPod nano 2nd generation (software version 1.1.3)
  - iPod nano 1st generation (software version 1.3.1)
  - iPod touch 2nd generation (software version 3.0)
  - iPod touch 1st generation (software version 3.0)
  - iPod classic 120GB (software version 2.0.1)
  - iPod classic (software version 1.1.2)
  - iPod 5th generation (software version 1.3)
  - iPhone 3GS (software version 3.0)
  - iPhone 3G (software version 3.0)
  - iPhone (software version 3.0)
- Depending on the generation or version of the iPod, some functions can not be operated.
- Operations may vary depending on the software version of iPod.
- When using an iPod, iPod Dock Connector to USB Cable is required.
- Pioneer CD-IU50 interface cable is also available. For details, consult your dealer.
- About the file/format compatibility, refer to iPod manuals.
- Audio Book, Podcast: Yes

⚠ CAUTION

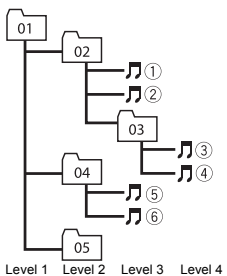
Pioneer accepts no responsibility for data lost on the iPod even if that data is lost while using this unit.

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



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Disc

Folder selection sequence or other operation may differ depending on the encoding or writing software.

External storage device (USB, SD)

Playback sequence is the same as recorded sequence in the external storage device (USB, SD).

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

1 Create the file name including numbers that specify the playback sequence (e.g., 01xxx.mp3 and 099yyy.mp3).

2 Put those files into a folder.

3 Save the folder containing files on the external storage device (USB, SD).

However, depending on the system environment, you cannot specify the playback sequence.

For USB portable audio players, the sequence is different and depends on the player.

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iTunes

Apple and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries.

MP3

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WMA

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SD memory card

SD Logo is a trademark.

miniSD Logo is a trademark.

microSD Logo is a trademark.

SDHC Logo is a trademark.

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iPod

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

“Made for iPod” means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

iPhone

iPhone is a trademark of Apple Inc.

“Works with iPhone” means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Specifications

General

Power source..... 14.4 V DC (10.8 V to 15.1 V allowable)
Grounding system ..... Negative type
Maximum current consumption ..... 10.0 A
Dimensions (W × H × D):
DIN
Chassis ..... 180 mm × 50 mm × 162 mm
Nose ..... 188 mm × 58 mm × 24 mm
D
Chassis ..... 178 mm × 50 mm × 162 mm
Nose ..... 170 mm × 46 mm × 24 mm
Weight ..... 1.3 kg

Audio

Maximum power output ..... 50 W × 4 50 W × 2/4 Ω + 70 W × 1/2 Ω (for subwoofer)
Continuous power output ..... 22 W × 4 (50 Hz to 15 000 Hz, 5 % THD, 4 Ω load, both channels driven)
Load impedance ..... 4 Ω to 8 Ω × 4 4 Ω to 8 Ω × 2 + 2 Ω × 1
Preout maximum output level ..... 2.2 V
Equalizer (5-Band Graphic Equalizer):
Frequency ..... 100/315/1.25k/3.15k/8k Hz
Gain ..... ±12 dB
HPF:
Frequency ..... 50/63/80/100/125 Hz
Slope ..... –12 dB/oct
Subwoofer (mono):
Frequency ..... 50/63/80/100/125 Hz
Slope ..... –18 dB/oct
Gain ..... +6 dB to –24 dB
Phase ..... Normal/Reverse
Bass boost:
Gain ..... +12 dB to 0 dB

CD player

System ..... Compact disc audio system
Usable discs ..... Compact disc
Signal-to-noise ratio ..... 94 dB (1 kHz) (IEC-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 (2ch audio) (Windows Media Player)
AAC decoding format ..... MPEG-4 AAC (iTunes encoded only) (.m4a) (Ver. 8.2 and earlier)
WAV signal format ..... Linear PCM & MS ADPCM (Non-compressed)

USB

USB standard specification ..... USB 2.0 full speed
Maximum current supply ..... 500 mA
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 (2ch audio) (Windows Media Player)
AAC decoding format ..... MPEG-4 AAC (iTunes encoded only) (.m4a) (Ver. 8.2 and earlier)
WAV signal format ..... Linear PCM & MS ADPCM (Non-compressed)

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SD

Compatible physical format ..... Version 2.00
Maximum memory capacity ..... 2 GB (for SD and SDHC)
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 (2ch audio) (Windows Media Player)
AAC decoding format ..... MPEG-4 AAC (iTunes encoded only) (.m4a) (Ver. 8.2 and earlier)
WAV signal format ..... Linear PCM & MS ADPCM (Non-compressed)

FM tuner

Frequency range ..... 87.5 MHz to 108.0 MHz
Usable sensitivity ..... 9 dBf (0.8 µV/75 Ω, mono, S/N: 30 dB)
Signal-to-noise ratio ..... 72 dB (IEC-A network)

MW tuner

Frequency range ..... 531 kHz to 1 602 kHz (9 kHz)
Usable sensitivity ..... 25 µV (S/N: 20 dB)
Signal-to-noise ratio ..... 62 dB (IEC-A network)

LW tuner

Frequency range ..... 153 kHz to 281 kHz
Usable sensitivity ..... 28 µV (S/N: 20 dB)
Signal-to-noise ratio ..... 62 dB (IEC-A network)

Notes

- The SD memory card is only available for DEH-4200SD.
- Specifications and the design are subject to modifications without notice.

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Printed in Belgium

MAN-DEH3200UB-GB