Pioneer

CD RDS RECEIVER

DEH-S5200BT
DEH-S4220BT
DEH-S4200BT

Operation Manual

pandora®   ◉ Spotify®

Made for
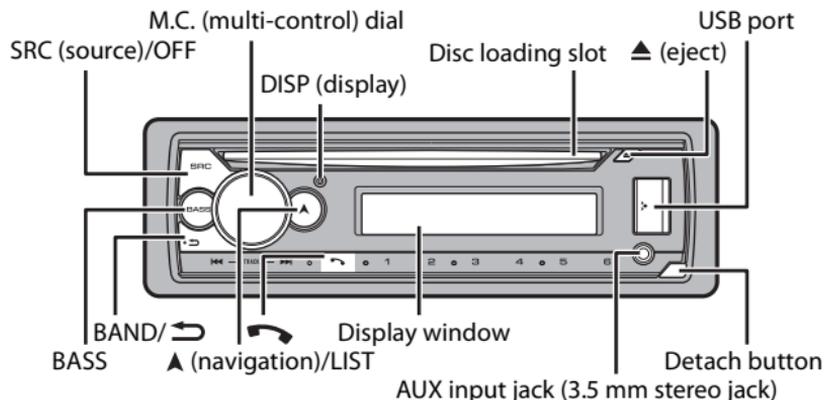 iPhone

Conçu pour
 iPhone

 Bluetooth®

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.
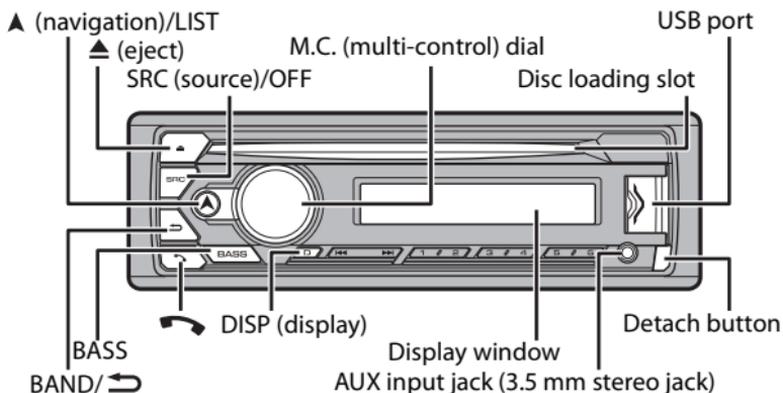
Getting Started

Basic operation

DEH-S5200BT

M.C. (multi-control) dial

SRC (source)/OFF

DISP (display)

Disc loading slot

USB port

▲ (eject)

Display window

BAND/

BASS

▲ (navigation)/LIST

AUX input jack (3.5 mm stereo jack)

Detach button

DEH-S4220BT/S4200BT

▲ (navigation)/LIST

▲ (eject)

SRC (source)/OFF

M.C. (multi-control) dial

Disc loading slot

USB port

BASS

DISP (display)

Display window

AUX input jack (3.5 mm stereo jack)

Detach button

BAND/

Optional remote control

The remote control CD-R510 is sold separately.

Frequently used operations

The available buttons vary depending on the unit.

Purpose	Operation
Turn on the power*	Press **SRC/OFF** to turn on the power. Press and hold **SRC/OFF** to turn off the power.
Adjust the volume	Turn the **M.C.** dial.
Select a source	Press **SRC/OFF** repeatedly.
Change the display information	Press **DISP** repeatedly.
Return to the previous display/list	Press **BAND/ ⟲**.
Return to the normal display from the menu	Press and hold **BAND/ ⟲**.
Change the display brightness	Press and hold **BAND/ ⟲**.
Answering a call	Press any button.
Ending a call	Press ☎.
Boost the bass level	Press **BASS**. • You can select the bass level ([HI] or [LOW]) in [D.BASS] (page 25).

* 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.
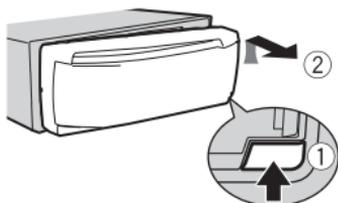
Display indication

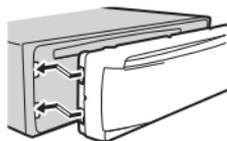| Indication	Description
♭	Appears when a lower tier of the menu or folder exists.
BASS	Appears when the **BASS** function is activated.
✖	Appears when random/shuffle play is set (except when BT AUDIO is selected as the source).
⇄	Appears when repeat play is set (except when BT AUDIO is selected as the source).
❸	Appears when a Bluetooth connection is made (page 11).
APP	Appears when a Pioneer Smart Sync connection is made (page 18).

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Detaching the front panel

Detach the front panel to prevent theft. Remove any cables and devices attached to the front panel and turn off the unit before detaching it.

Detach   **Attach**

🗘 **Important**

• Avoid subjecting the front panel to excessive shock.
• Keep the front panel out of direct sunlight and high temperatures.
• Always store the detached front panel in a protective case or bag.

Resetting the microprocessor

The microprocessor must be reset in the following situations:

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

1 **Remove the front panel (page 5).**

2 **Press the RESET button with a pointed instrument longer than 8 mm.**

RESET button

Setup menu

When you turn the ignition switch to ON after installation, the setup menu appears in the display.

1 Turn the M.C. dial to select the options, then press to confirm.

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

Menu Item	Description
LANGUAGE [ENG](English), [ESP](Spanish), [FRA] (Canadian French)	Select the language to display the text information from a compressed audio file.
CLOCK SET	Set the clock. **1** Turn the **M.C.** dial to adjust the hour, then press to confirm. The indicator moves to the minute setting automatically. **2** Turn the **M.C.** dial to adjust the minute, then press to confirm.

2 [QUIT :YES] appears.

To return to the first item of the setup menu, turn the **M.C.** dial to select [QUIT :NO], then press to confirm.

3 Press the M.C. dial to confirm the settings.

NOTE
These settings can be made at any time from the SYSTEM settings (page 26).

Canceling the demonstration display (DEMO OFF)

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

2 Turn the M.C. dial to select [SYSTEM], then press to confirm.

3 Turn the M.C. dial to select [DEMO OFF], then press to confirm.

4 Turn the M.C. dial to select [YES], then press to confirm.

INITIAL settings

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

2 Press the M.C. dial to display the main menu.

3 Turn the M.C. dial to select [INITIAL], then press to confirm.

4 Turn the M.C. dial to select an option, then press to confirm.

NOTE
The options vary depending on the unit.

Menu Item	Description
REAR-SP [FUL]	Select when there is a full-range speaker connected to the rear speaker output leads.
[SW]	Select when there is a subwoofer connected directly to the rear speaker output leads without any auxiliary amplifier.
SP-P/O MODE [REAR/SUB.W]	Select when there is a full-range speaker connected to the rear speaker output leads and there is a subwoofer connected to the RCA output.
[SUB.W/SUB.W]	Select when there is a passive subwoofer connected directly to the rear speaker output leads and there is a subwoofer connected to the RCA output.
[REAR/REAR]	Select when there are full-range speakers connected to the rear speaker output leads and RCA output. If there is a full-range speaker connected to the rear speaker output leads, and the RCA output is not used, you may select either [REAR/SUB.W] or [REAR/REAR].
SYSTEM UPDATE [SYSTEM INFO], [S/W UPDATE]	Select [SYSTEM INFO] to confirm the latest system information on the unit. Select [S/W UPDATE] to update the unit to the latest software and initialize the unit settings. For details on the latest software and updating, visit our website.
SYSTEM RESET [YES], [NO]	Select [YES] to initialize the unit settings. The unit will be restarted automatically.

Radio

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

Receiving preset stations

1 Press **SRC/OFF** to select [RADIO].

2 Press **BAND/ ⮌** to select the band from [FM1], [FM2], [FM3] or [AM].

3 Press a number button (1/ ∧ to 6/ ⇄).

TIP
The ⏮/⏭ buttons can be also used to select a preset station when [SEEK] is set to [PCH] in the FUNCTION settings (page 23).

Best stations memory (BSM)

The six strongest stations are stored on the number buttons (**1/∧** to **6/↩**).

1 **After selecting the band, press the M.C. dial to display the main menu.**

2 **Turn the M.C. dial to select [FUNCTION], then press to confirm.**

3 **Turn the M.C. dial to select [BSM], then press to confirm.**

To seek a station manually

1 **After selecting the band, press |◄◄/►►| to select a station.**
Press and hold |◄◄/►►| then release to seek an available station. Scanning stops when the unit receives a station. To cancel seek tuning, press |◄◄/►►|.

NOTE
[SEEK] needs to be set to [MAN] in the FUNCTION settings (page 23).

To store stations manually

1 **While receiving the station you want to store, press and hold one of the number buttons (1/∧ to 6/↩) until it stops flashing.**

CD/USB/iPhone®/AUX

(iPhone source is not available when [USB MTP] is set to [ON] in the SYSTEM settings (page 27).)

Playing back

Disconnect headphones from the device before connecting it to the unit.

CD

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

To eject a disc, stop playback first then press ▲.

USB devices (including Android™)/iPhone

1 **Open the USB port cover.**

2 **Plug in the USB device/iPhone using an appropriate cable.**

NOTE

To automatically switch to USB source when a USB device/iPhone is connected to the unit, set [USB AUTO] to [ON] in the SYSTEM settings (page 27).

⚠ CAUTION

Use a USB cable (sold separately) to connect the USB device as any device connected directly to the unit will protrude out from the unit, which could be dangerous.

Before removing the device, stop playback.

AOA connections

A device running Android OS 4.1 or later installed and also supports AOA (Android Open Accessory) 2.0 can be connected to the unit via AOA, using the cable supplied with the device.

NOTE

If you use an AOA connection, [APP CONTROL] needs to be set to [WIRED] (page 27) and [USB MTP] needs to be set to [OFF] (page 27) in the SYSTEM settings.

MTP connection

A device installed with Android OS 4.0 or most of later versions can be connected to the unit via MTP, using the cable supplied with the device. However, depending on the connected device, OS version or the numbers of the files in the device, audio files/songs may not be able to be played back via MTP. Note that MTP connection is not compatible with WAV file formats and FLAC file formats, and cannot be used with the MIXTRAX function.

NOTE

If you use an MTP connection, [USB MTP] needs to be set to [ON] in the SYSTEM settings (page 27).

AUX

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

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

NOTE

If [AUX] is set to [OFF] in the SYSTEM settings, [AUX IN] cannot be selected as a source (page 26).

Operations

You can make adjustments in the FUNCTION settings (page 22) (except for AUX IN/CD/ USB source).

Note that the following operations do not work for an AUX device. To operate an AUX device, use the device itself.

Purpose	Operation
Select a folder*1	Press **1**/ ∧ or **2**/ ∨ .
Select a track/song (chapter)	Press ⏮ or ⏭.

Purpose	Operation
Fast forward or reverse*2	Press and hold ◄◄ or ►►|.
Search for a file from a list (CD/USB only)	**1** Press and hold ∧ to display the list. **2** Turn the **M.C.** dial to select the desired file (folder) name or category, then press to confirm. **3** Turn the **M.C.** dial to select the desired file, then press to confirm. Playback starts.
View a list of the files in the selected folder/category*1	Press the **M.C.** dial when a folder/category is selected.
Play a song in the selected folder/category*1	Press and hold the **M.C.** dial when a folder/category is selected.
Repeat play	Press **6**/↹.
Random/shuffle play	Press **5**/✕✕.
Pause/resume playback	Press **4/PAUSE**.
Return to root folder (CD/USB only)*1	Press and hold **1**/∧.
Switch between compressed audio and CD-DA (CD only)	Press **BAND**/⟳.

*1 Compressed audio files only
*2 When you use the fast forward or reverse function while playing a VBR file, the playback time may be not correct.

About MIXTRAX (USB/iPhone only)

The MIXTRAX function creates a non-stop mix of your music library, accompanied by illumination effects. For details on MIXTRAX settings, see page 29.

NOTES
- iPhone needs to be connected with Pioneer Smart Sync via USB for using this function (page 18).
- Depending on the file/song, sound effects may not be available.
- Turn the MIXTRAX function off if the illumination effects it produces interfere with driving.

1 Press 3/MIX to turn MIXTRAX on/off.

Bluetooth

Bluetooth connection

🔷 Important

If ten or more Bluetooth devices (e.g. a phone and separate audio player) are connected, they may not work properly.

TIP

The next connection to the unit is performed automatically if the Bluetooth device has been connected previously in the following steps.

1 Turn on the Bluetooth function of the device.

If you make a Bluetooth connection from the device, proceed to step 4.

2 Press 📞 to display the [ADD DEVICE] setting.

The unit starts to search for available devices, then displays them in the device list.
- To cancel searching, press the **M.C.** dial.
- If the desired device is not in the list, select [RE-SEARCH].
- If there is no device available, [NOT FOUND] appears in the display.
- If there is already a connected device, the phone menu appears by pressing 📞.

3 Turn the M.C. dial to select a device from the device list, then press to confirm.

Press and hold the **M.C.** dial to switch the displayed device information between the Bluetooth device address and device name.

If you make a Bluetooth connection from the unit, proceed to step 5.

4 Select the unit name shown in the device display.

5 Make sure the same 6-digit number appears on this unit and the device, then select [YES] if the 6-digit numbers displayed on this unit and the device are the same.

Bluetooth telephone

First, make a Bluetooth connection with the Bluetooth telephone (page 11). Up to two Bluetooth telephones can be connected simultaneously.

🔷 Important

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

To make a phone call

1 **Press 📞 to display the phone menu.**
When two phones are connected, a phone name appears first then a phone menu
will display. To switch to another phone, press 📞 again.

2 **Turn the M.C. dial to select [RECENTS] or [PHONE BOOK], then press to confirm.**
If you select [PHONE BOOK], proceed to step 4.

3 **Turn the M.C. dial to select [MISSED], [DIALED] or [RECEIVED], then press to confirm.**

4 **Turn the M.C. dial to select a name or phone number, then press to confirm.**
The phone call starts.

To answer an incoming call

1 **Press any button when a call is received.**

TIP
When two phones are connected to the unit via Bluetooth and there is an incoming call while one
phone is being used for a call, a message will appear in the display. To answer that incoming call, you
need to end the existing call.

Basic operations

Purpose	Operation
End a call	Press 📞.
Reject an incoming call	Press and hold 📞 when a call is received.
Switch between the current caller and a caller on hold	Press the **M.C.** dial.
Cancel a caller on hold	Press and hold 📞.
Adjust the volume of the caller's voice (When private mode is on, this function is not available.)	Turn the **M.C.** dial during the call.
Turn the private mode on or off	Press **BAND**/⤴ during the call.

To preset phone numbers

1 **Select a phone number from a phone book or call history.**

2 **Press and hold one of the number buttons (1/∧ to 6/⇄).**
The contact is stored in the selected preset number.

To make a call using a preset number, press one of the number buttons (**1**/ ∧ to **6**/↵), then press the **M.C.** dial, while the phone menu is displayed.

Voice recognition

This function is only available when an iPhone/Android device equipped with voice recognition is connected to the unit via Bluetooth.

1 Press and hold 📞 **and then talk into the microphone to input voice commands.**

To exit the voice recognition mode, press **BAND**/ ⤴.

NOTE

For details on the voice recognition features, refer to the manual supplied with your device.

TIP

When a Pioneer Smart Sync connection is made (page 18), you can also use the voice recognition function from Pioneer Smart Sync installed on your iPhone/Android device by pressing and holding 📞. For details on the voice recognition features, see the application's help section.

Phone menu

1 Press 📞 **to display the phone menu.**

Menu Item	Description
RECENTS	Display the missed call history.
[MISSED]	
[DIALED]	Display the dialed call history.
[RECEIVED]	Display the received call history.
PHONE BOOK	Display the contacts in your phone.
PRESET 1-6	Recall the preset phone numbers. You can also recall the preset phone numbers by pressing one of the number buttons (**1**/ ∧ to **6**/↵).
A.ANSR*	Select [ON] to answer an incoming call automatically.
[ON], [OFF]	
PB INVT	Invert the order of names in the phone book (name view).
DEVICELIST	Display the list of paired Bluetooth devices. "*" appears on the device name when the Bluetooth connection is established. When no device is selected in the device list, this function is not available.
DEL DEVICE	Delete the device information.
[DELETE YES], [DELETE NO]	

Menu Item	Description
ADD DEVICE	Register a new device.
DEV. INFO	Switch the device information on the display between the device name and Bluetooth device address.

* If two phones are connected, this function does not work on incoming calls that are received while one of the phones is being used for a call.

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 (Advanced Audio Distribution Profile) can only play back songs on your audio player.
  – AVRCP (Audio/Video Remote Control Profile) can perform functions such as playback, pause, select song, etc.
- 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.
- Depending on the type of Bluetooth audio player you have connected to this unit, operation and information displayed may vary based on availability and functionality.

1   Make a Bluetooth connection with the Bluetooth audio player.

2   Press SRC/OFF to select [BT AUDIO] as the source.

3   Press BAND/ ⮌ to start playback.

NOTE

You must reconnect the Bluetooth connection when the source is switched or the unit is turned off.

TIP

When more than two and up to five devices are registered to the unit via Bluetooth, you can switch the Bluetooth device by playing back songs on the device. By doing so, playing back a song from the Bluetooth device of each passenger is easily available. However, depending on the usage conditions, multiple connections may not be available and the audio files/songs may not be able to be played back properly.

Basic operations

You can make various adjustments in the FUNCTION settings (page 22).

Purpose	Operation
Fast forward or reverse	Press and hold ◄◄ or ►►.
Select a track	Press ◄◄ or ►►.
Repeat play*	Press **6**/⮌.
Random play*	Press **5**/✕✕.

Purpose	Operation
Pause/resume playback	Press **4**/**PAUSE**.
Search for a file from a list	**1** Press and hold ∧ to display a list. **2** Turn the **M.C.** dial to select the desired folder name, then press to confirm. **3** Turn the **M.C.** dial to select the desired file, then press to confirm. Playback starts.

* Depending on the connected device, these operations may not be available.

Pandora®

(Not available when [USB MTP] is set to [ON] in the SYSTEM settings (page 27).) Pandora music is a music service not affiliated with Pioneer.
The Pandora mobile application is available for iPhone and Android phones.

Listening to Pandora

Update the firmware of the Pandora application to the latest version before use.

1 **Connect this unit with the mobile device.**
- iPhone via USB (page 8)
- iPhone/Android device via Bluetooth (page 11)

2 **Press SRC/OFF to select [PANDORA].**

3 **Press and hold 1/∧ to display [APP CONTROL].**

4 **Turn the M.C. dial to select one of the below.**
- Select [WIRED] for the USB connection.
- Select [BLUETOOTH] for the Bluetooth connection.

5 **Press SRC/OFF to select [PANDORA].**

6 **Launch the Pandora application on the mobile device and start playback.**

NOTE
When you connect a mobile device other than an iPhone/Android device, it may not operate correctly depending on your mobile device.

Basic operations

You can make various adjustments in the FUNCTION settings (page 22).

Purpose	Operation
Skip a track	Press ▶▶|.
Switch between Shuffle and the station	Press and hold ∧, then turn the **M.C.** dial to select the Shuffle or the desired station.
Change the sort order	Press and hold ∧, then select one of the following. **[ABC]:** Sort the items in the list alphabetically. **[DATE]:** Sort the items in the list in order of the dates on which the items were created.
Play	When Shuffle or the station is selected, press the **M.C.** dial.
Delete a station	**1** When the station is selected, press and hold the **M.C.** dial. [DELETE YES] appears. **2** Press the **M.C.** dial. To cancel, press **BAND**/⟲ in step 1.
Pause/resume playback	Press **4/PAUSE**.
Thumbs Up	Press **1**/∧.
Thumbs Down	Press **2**/∨.
Create a new station based on the track currently being played	Press and hold **5/✕✕**.
Create a new station based on the artist currently being played	Press and hold **6/⇌**.
Store the track information currently being played in your Pandora account.	**1** Press and hold **3**/**MIX**. [BOOKMARK] appears. **2** Press the **M.C.** dial.

NOTE
Some functions of Pandora may not be operated from the unit.

Spotify®

(Not available when [USB MTP] is set to [ON] in the SYSTEM settings (page 27).)
Spotify is a music streaming distribution service not affiliated with Pioneer.

To enjoy Spotify as you drive, first download the Spotify app to your iPhone or Android device. You can download it on the iTunes® App Store® or Google Play™. Choose a free account or a paid Premium account, either in the app or at spotify.com. A Premium account gives you more features, like offline listening.

Listening to Spotify

Update the firmware of the Spotify application to the latest version before use.

1 **Connect this unit with the mobile device.**

• iPhone via USB (page 8)
• iPhone/Android device via Bluetooth (page 11)

2 **Press SRC/OFF to select [SPOTIFY].**

3 **Press and hold 1/ to display [APP CONTROL].**

4 **Turn the M.C. dial to select one of the below.**

• Select [WIRED] for the USB connection.
• Select [BLUETOOTH] for the Bluetooth connection.

5 **Press SRC/OFF to select [SPOTIFY].**

6 **Launch the Spotify application on the mobile device and start playback. NOTE**

When you connect a mobile device other than an iPhone/Android device, it may not operate correctly depending on your mobile device.

Basic operations

You can make various adjustments in the FUNCTION settings (page 22).

NOTE
The available operations may vary according to the type of contents (track/album/artist/playlist/radio) you want to play.

Purpose	Operation
Skip a track	Press ◄◄ or ►►.

Purpose	Operation
Search for a track from a list	**1** Press and hold Λ to display the list. **2** Turn the **M.C.** dial to select the desired category, then press to confirm. **3** Turn the **M.C.** dial to select the desired file, then press to confirm. Playback starts.
Pause/resume playback	Press **4/PAUSE**.
Thumbs Up (Only for radio)	Press **1**/Λ.
Thumbs Down (Only for radio)	Press **2**/$\vee$.
Random play (Only for track/album/artist/ playlist)	Press **5**/$\boxtimes$.
Repeat play (Only for track/album/artist/ playlist)	Press **6**/$\rightleftarrows$.
Start a radio channel based on the song currently being played.	**1** Press and hold **5**/$\boxtimes$ to start a radio. **2** Press the **M.C.** dial. • This function may not be available depending on the selected song.

NOTE

Some functions of Spotify may not be operated from the unit.

Using Pioneer Smart Sync/APP

Pioneer Smart Sync is the application that intelligently brings your maps, messages, and music together in the vehicle.

You can operate the unit from Pioneer Smart Sync installed on an iPhone/Android device. In some cases, you can control aspects of the application, such as source selection, pause, etc., by using the unit.

For details on what operations are available on the application, see the application's help section.

NOTE

The APP source is not available when a Pioneer Smart Sync connection is not made or [USB MTP] is set to [ON] in the SYSTEM settings (page 27).

⚠ WARNING

Do not attempt to operate the application while driving. Make sure to pull off the road and park your vehicle in a safe location before attempting to use the controls on the application.

For iPhone users

This function is compatible with iOS 10.3 or later.

You can download Pioneer Smart Sync on iTunes App Store.

For Android device users
For Bluetooth connections, this function is compatible with devices that have Android OS 5.0 or later installed.
For USB connections, this function is compatible with a phone that runs Android 5.0 or later up to 7.1.2 and also supports AOA (Android Open Accessory) 2.0. However, the compatibility depends on the smartphone.
You can download Pioneer Smart Sync on Google Play.

NOTE
Some Android devices connected via AOA 2.0 may not work properly or emit sounds due to their own software design, regardless of the OS version.
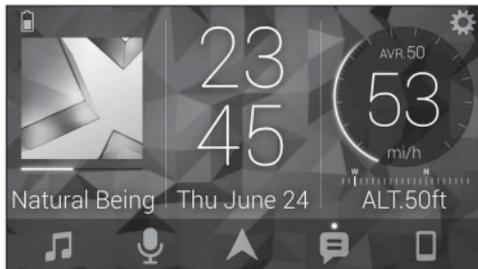
What kind of function does the application have?

Promoting the use of the unit

The interface of the unit can be evolved by using your iPhone/Android device.

Image (example):

Examples:
  – Selecting a source of the unit

- Listening to the music on your iPhone/Android device
- Controlling the sound field intuitively
- Setting the illumination color (Only for DEH-S5200BT)
- Controlling your connected Bluetooth device

Extending the functions of the unit by using the application

The following functions, which are unavailable on the unit alone, are available by making a Pioneer Smart Sync connection.
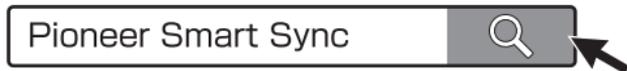
Menu Item (example)	Description
Using a navigation application	You can specify and start the navigation application installed on your device.
Message reading	You can read messages received from the apps installed on your device.
31 Band EQ setting	You can select an equalizer band from the 31-band graphic equalizer (13-band for not using the Pioneer Smart Sync connection).
Super "Todoroki" Sound	You can boost the bass level more dynamically than when not using the Pioneer Smart Sync connection.
Easy Sound Fit	You can perform the time alignment setting easily by selecting your vehicle type.
Theme setting (Only for DEH-S5200BT)	You can set the wall paper and the theme color (display/keys/characters) at once.

NOTES
- Some functions may be restricted depending on the connection conditions with the application.
- The 31 Band EQ setting is converted into 13 bands when a music source from this product is engaged.

TIP
It is recommended to enter the search term "Pioneer Smart Sync" in the search field to search for the application.

Pioneer Smart Sync   🔍

Making a connection with Pioneer Smart Sync

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

2 Turn the M.C. dial to select [SYSTEM], then press to confirm.

3 Turn the M.C. dial to select [APP CONTROL], then press to confirm.

4 **Turn the M.C. dial to select one of the below.**
- Select [WIRED] for the USB connection.
- Select [BLUETOOTH] for the Bluetooth connection.

5 **Turn the M.C. dial to select [AUTO APP CONN], then press to confirm.**

6 **Turn the M.C. dial to select [ON], then press to confirm.**

7 **Connect this unit with the mobile device.**
- iPhone/Android device via USB (page 8)
- iPhone/Android device via Bluetooth (page 11)

Pioneer Smart Sync on the device starts automatically.

NOTE
Regardless of whether the [AUTO APP CONN] setting is set to [ON] or [OFF], you can also perform the following to start Pioneer Smart Sync.
- For devices other than the USB-connected Android device, press **SRC**/**OFF** to select any source and press and hold the **M.C.** dial.
- For iPhone, launch Pioneer Smart Sync on the mobile device.

NOTES
- When you connect a mobile device other than an iPhone/Android device, it may not operate correctly depending on your mobile device.
- If Pioneer Smart Sync has not been installed on your iPhone/Android device yet, a message that prompts you to install the application will appear on your iPhone/Android device (except for the Android device connected via Bluetooth). Select [OFF] in [AUTO APP CONN] to clear the message (page 27).

Listening to music on your device

1 **Press SRC/OFF to select [APP].**

Audio Adjustments

You can also make various adjustments in the AUDIO settings (page 23).

Adjusting the cut-off frequency value and the slope value

You can adjust the cut-off frequency value and the slope value of each speaker.
The following speakers can be adjusted.
[FRONT], [REAR], [SUBWOOFER]

NOTE

[SUBWOOFER] can only be selected when [ON] is selected in [SUBWOOFER] (page 24).

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

2 Turn the M.C. dial to select [AUDIO], then press to confirm.

3 Turn the M.C. dial to select [CROSSOVER], then press to confirm.

4 Turn the M.C. dial to select the speaker unit (filter) to be adjusted, then press to confirm.

5 Turn the M.C. dial to select [HPF] or [LPF] according to the speaker unit (filter), then press to confirm.

6 Turn the M.C. dial to select an appropriate cut-off frequency for the speaker unit (filter) selected in step 4, then press to confirm.
[25HZ] to [250HZ]

7 Turn the M.C. dial to select an appropriate slope for the speaker unit (filter) selected in step 4.
[–6] to [–24] (if you choose [FRONT] or [REAR])
[–6] to [–36] (if you choose [SUBWOOFER])

Settings

You can adjust various settings in the main menu.

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

2 Turn the M.C. dial to select one of the categories below, then press to confirm.
- FUNCTION settings (page 22)
- AUDIO settings (page 23)
- SYSTEM settings (page 26)
- ILLUMINATION settings (page 28)
- MIXTRAX settings (page 29)

3 Turn the M.C. dial to select the options, then press to confirm.

FUNCTION settings

The menu items vary according to the source.

Menu Item	Description
BSM `RADIO`	Store the six strongest stations on the number buttons (**1**/∧ to **6**/↩) automatically.
LOCAL `RADIO` **FM:** [OFF], [LV1], [LV2], [LV3], [LV4] **AM:** [OFF], [LV1], [LV2]	Restrict the tuning station according to the signal strength.
SEEK `RADIO` [MAN], [PCH]	Assign �◀◀ or ▶▶▎ buttons to seek the stations one by one (manual tuning) or select a station from the preset channels.
SAVE `SPOTIFY`	Store the information about the song currently being played to your music list on Spotify.
UNSAVE `SPOTIFY`	Remove the song information stored in [SAVE].
SEL DEVICE `iPhone` `PANDORA` `BT AUDIO` `SPOTIFY`	Connect a Bluetooth device in the list.
BOOKMARK `PANDORA`	Store the track information currently being played in your Pandora account.
NEW STATION `PANDORA` [FROM TRACK], [FROM ARTIST]	Create a new station based on the track or artist currently being played.
PLAY `BT AUDIO`	Start playback.
STOP `BT AUDIO`	Stop playback.

AUDIO settings

NOTE

[CHK APP SETTG.] may be displayed when the setting is performed from Pioneer Smart Sync.

Menu Item	Description
EQ SETTING	
[SUPER BASS], [POWERFUL], [DYNAMIC], [NATURAL], [VOCAL], [VIVID], [SET BY APP]*, [CUSTOM1], [CUSTOM2], [FLAT] * [SET BY APP] is displayed when the preset equalizer curve that is not available in the unit has been set from Pioneer Smart Sync.	Select or customize the equalizer curve. • When you select a setting other than [CUSTOM1], [CUSTOM2] and [SET BY APP], you can also customize the equalizer curve by pressing and holding the **M.C.** dial, then store the customized equalizer curve in [CUSTOM1].
Select an equalizer band and level for further customizing. **Equalizer band:** [50HZ] to [12.5kHZ] **Equalizer level:** [–6] to [+6]	
FADER*1*2	
	Adjust the front and rear speaker balance.
BALANCE	
	Adjust the left and right speaker balance.
SUBWOOFER	
[ON], [OFF]	Set to [ON] when using a subwoofer speaker.
SUBWOOFER*3	
[NOR], [REV]	Select the subwoofer phase.
SPEAKER LEVEL	
Types of speaker: [FRONT L], [FRONT R], [REAR L], [REAR R], [SUBWOOFER] **Output level:** [–24] to [10]	Select a speaker unit (filter) and adjust the output level. • Each value you have adjusted changes when you change the [POSITION] setting (page 24).
CROSSOVER	
	Select a speaker unit (filter) to adjust the HPF or LPF cut-off frequency and the slope for each speaker unit. For details on the [CROSSOVER] setting, see page 21.
POSITION	
[OFF], [FRONT LEFT] (front seat left), [FRONT RIGHT] (front seat right), [FRONT] (front seats), [ALL]	Select a listening position to adjust the speakers' output levels automatically and add a delay time that corresponds to the number and locations of occupied seats.

Menu Item	Description
TIME ALGNMNT	
[INITIAL], [OFF], [CUSTOM] Select a type of speaker and adjust the speaker distance for further customizing in [CUSTOM]. **Types of speaker:** [FRONT L], [FRONT R], [REAR L], [REAR R], [SUBWOOFER] **Speaker distance (inch):** [140] to [0]	Select or customize the time alignment settings to reflect the distance between the listener's position and each speaker. • Select [INITIAL] to initialize the setting value. • Select [OFF] to reset all setting values to 0. • The [CUSTOM] setting is available when [FRONT LEFT] or [FRONT RIGHT] is selected in [POSITION] (page 24). • The [CUSTOM] setting is not available when [OFF] is selected in [SUBWOOFER] (page 24).
SAVE SETTINGS	
[YES], [NO]	Save to later recall the following sound settings at their current values: [CROSSOVER], [SPEAKER LEVEL], [EQ SETTING], [POSITION], [TIME ALGNMNT], [D.BASS], [SUBWOOFER]. • The settings that can be saved differ when a Pioneer Smart Sync connection is made.
LOAD SETTINGS	
	Load the sound settings, when you have already performed [SAVE SETTINGS].
D.BASS	
[OFF], [LOW], [HI]	Boost the bass level dynamically to offer an effect as if a subwoofer was added to the system.
LOUDNESS	
[OFF], [LOW], [MID], [HI]	Compensate for clear sound at low volume.
SLA	
[+4] to [–4]	Adjust the volume level for each source except FM. Each of the below combinations are set to the same setting automatically. • When making a USB connection, set USB, iPhone, PANDORA, APP, and SPOTIFY. • When making a Bluetooth connection, set BT AUDIO, iPhone, PANDORA, APP, and SPOTIFY.

Menu Item	Description
S.RTRV	
[1] (effective for low compression rates), [2] (effective for high compression rates), [OFF]	Enhance compressed audio and restore rich sound.

*1 Not available when [SW] is selected in [REAR-SP] in the INITIAL settings (page 7).
*2 Not available when [SUB.W/SUB.W] is selected in [SP-P/O MODE] in the INITIAL settings (page 7).
*3 Not available when [REAR/REAR] is selected in [SP-P/O MODE] in the INITIAL settings (page 7).

SYSTEM settings

You can also access to these menus when the unit is turned off.

Menu Item	Description
LANGUAGE	
[ENG](English), [ESP](Spanish), [FRA] (Canadian French)	Select the language to display the text information from a compressed audio file.
CLOCK SET	
[12H], [24H]	Set the clock (page 6). • This setting is not available when a Pioneer Smart Sync connection is made.
SCROLL SET	
[ONCE], [LOOP], [OFF]	Select the way to scroll the text in the display window.
BEEP TONE	
[ON], [OFF]	A beep can be heard when any button is pushed. Select [OFF] to disable this function.
INFO DISPLAY	
[SOURCE/SPEANA], [CLOCK/ SPEANA], [SRC/LIVE FX], [CLOCK/ LIVE FX], [SOURCE], [SPEANA], [OFF]	Display the item on the sub information display. • When [SOURCE/SPEANA] or [CLOCK/SPEANA] is selected, display the antenna instead of the speana on the radio source.
AUX	
[ON], [OFF]	Set to [ON] when using an auxiliary device connected to the unit.
BT AUDIO	
[ON], [OFF]	Set the Bluetooth signal on/off.

Menu Item	Description
PANDORA	
[ON], [OFF]	Set to [ON] when using the Pandora function.
SPOTIFY	
[ON], [OFF]	Set to [ON] when using the Spotify function.
BT MEM CLEAR	
[YES], [NO]	Clear the Bluetooth device data (device list, PIN code, call history, phone book, preset phone numbers) stored in the unit. [CLEARED] appears when data is successfully deleted.
APP CONTROL	
[WIRED], [BLUETOOTH]	Select the appropriate connection method according to your device. See page 27 for details on the connections for each device.
USB MTP	
[ON], [OFF]	Set to [ON] when using the MTP connection. The following sources are not available when the setting is set to [ON]. • APP, PANDORA, SPOTIFY, iPhone, and USB (AOA)
AUTO APP CONN	
[ON], [OFF]	Select [ON] to automatically launch Pioneer Smart Sync when the iPhone/Android device is connected to the unit.
USB AUTO	
[ON], [OFF]	Select [ON] to automatically switch to USB source when a USB device/iPhone is connected to the unit. Select [OFF] when a USB device/iPhone is being connected to the unit just for charging.

Information on the connections for each device

The available sources differ depending on the setting value.
Please set [APP CONTROL] according to the table for the source you want to use.
For details on Pioneer Smart Sync connection, see page 18.

When Pioneer Smart Sync connection is NOT performed

Setting Value	Device	Available source(s)
[WIRED]	iPhone	iPhone, PANDORA, SPOTIFY
	Android	USB (AOA)
[BLUETOOTH]	iPhone	iPhone, PANDORA, SPOTIFY
	Android	PANDORA, SPOTIFY

When Pioneer Smart Sync connection is performed

Setting Value	Device	Available source(s)
[WIRED]	iPhone	APP, PANDORA, SPOTIFY
	Android	APP
[BLUETOOTH]	iPhone	APP, PANDORA, SPOTIFY
	Android	APP, PANDORA, SPOTIFY

ILLUMINATION settings

Menu Item	Description
COLOR (Only for DEH-S5200BT)	
[KEY COLOR], [DISP COLOR], [BOTH COLOR]	Select color for the keys/display of the unit from 12 preset colors, [SCAN] or [CUSTOM]*. • [SCAN]: Cycle through a variety of colors automatically. • [CUSTOM]*: **1** Press and hold the **M.C.** dial until the color setting display appears. **2** Set the primary color (R (red)/G (green)/B (blue)) and brightness level ([0] to [60]). You cannot select a level below 10 for all three of R (red), G (green), B (blue) at the same time. You can also customize the preset colors. Select one of the preset colors, then press and hold the **M.C.** dial until the color setting display appears. * The CUSTOM setting is only available for [KEY COLOR] and [DISP COLOR].
DIM SETTING	
[SYNC ILLUMI]*, [SYNC CLOCK], [MANUAL] * Only for DEH-S5200BT	Select the way to change the display brightness.

Menu Item	Description
BRIGHTNESS (Only for DEH-S5200BT)	
[KEY], [DISP]	Select the brightness for the keys/display of the unit from [1] to [10]. The available setting ranges differ depending on [DIM SETTING].
BRIGHTNESS (Only for DEH-S4220BT/S4200BT)	
[1] to [10]	Change the display brightness. The available setting ranges differ depending on [DIM SETTING].
PHONE COLOR (Only for DEH-S5200BT)	
	Select the key color when a call is received.
[FLASHING]	Applies the color set by [KEY COLOR]. • The illumination effect differs depending on the selection of [ON] or [OFF] in [ILLUMI FX].
[FLASH FX1] to [FLASH FX6]	Cycle through a variety of colors automatically.
[OFF]	No change in key color made.
ILLUMI FX (Only for DEH-S5200BT)	
[ON], [OFF]	The illumination effect can be seen when: – there is an incoming call when [FLASHING] is selected in [PHONE COLOR] – you are on a phone call – the message received on the device is being read when a Pioneer Smart Sync connection is made – a CD is inserted/ejected – the front panel is attached. The illumination effect will activate when the ACC power is turned on/off regardless of this setting.

MIXTRAX settings

Menu Item	Description
SHORT PLAYBCK	
[1.0 MIN], [1.5 MIN], [2.0 MIN], [2.5 MIN], [3.0 MIN], [OFF]	Select the length of the playback time.

Menu Item	Description
FLASH AREA (Only for DEH-S5200BT)	
[KEY/DISPLAY], [KEY], [OFF]	Select the area for the illumination effect. When [OFF] is selected, the color set under the ILLUMINATION settings (page 28) is used as the display color.
FLASH PATTERN (Only for DEH-S5200BT)	
[SOUND LEVEL 1] to [SOUND LEVEL 6]	Change the illumination effect according to the sound and bass level. The flash pattern changes according to the sound level.
[LOW PASS 1] to [LOW PASS 6]	The flash pattern changes according to the bass level.
[RANDOM1]	The flash pattern changes randomly according to the sound level mode and low pass mode.
[RANDOM2]	The flash pattern changes randomly according to the sound level mode.
[RANDOM3]	The flash pattern changes randomly according to the low pass mode.
MIX PATTERN (Only for DEH-S4220BT/S4200BT)	
[SOUND LEVEL]	Change the MIXTRAX special effects according to the audio level. The mix pattern changes according to the sound level.
[LOW PASS]	The mix pattern changes according to the bass level.
[RANDOM]	The mix pattern changes randomly according to the sound level mode and low pass mode.
DISPLAY FX	
[ON], [OFF]	Set the MIXTRAX special effects on/off.
CUT IN FX	
[ON], [OFF]	Turn the MIXTRAX sound effects on/off while manually changing the tracks.

Additional Information

Troubleshooting

The display automatically returns to the normal display.
→ No operations have been made for about 30 seconds.
  – Perform an operation.

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 [FLD] (folder repeat) is selected.
  – Select another repeat play range.

The sound is intermittent.
→ 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.

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.
  – Stop using the cellular phone.
→ The connection between the unit and the cellular phone is not established correctly after a call made by a Bluetooth-connected cellular phone.

  – Make a Bluetooth connection between the unit and the cellular phone again.

Error messages

Common

AMP ERROR
→ This unit fails to operate or the speaker connection is incorrect.
→ The protective circuit is activated.
  – Check the speaker connection.
  – Turn the ignition switch OFF and back to ON again. If the message remains, contact your dealer or an authorized Pioneer Service Station for assistance.

NO XXXX (NO TITLE, for example)
→ There is no embedded text information.
  – Switch the display or play another track/file.

CD player

ERROR-07, 11, 12, 17, 30
→ The disc is dirty.
  – Clean the disc.
→ The disc is scratched.
  – Replace the disc.

ERROR-07, 10, 11, 12, 15, 17, 30, A0
→ There is an electrical or mechanical error.
  – Turn the ignition switch OFF and back to ON, 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.

NO AUDIO
→ The inserted disc does not contain any playable files.
  – Replace the disc.

SKIPPED
→ The inserted disc contains DRM protected files.
  – The protected files are skipped.

PROTECT
→ All the files on the inserted disc are embedded with DRM.
  – Replace the disc.

USB device/iPhone

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 device and connect.
→ The connected USB device has security enabled.
  – Follow the USB device instructions to disable the security.

SKIPPED
→ The connected USB device contains DRM protected files.
  – The protected files are skipped.

PROTECT
→ All the files on the connected USB device are embedded with DRM.

– Replace the USB device.

N/A USB
→ The connected USB device is not supported by this unit.
  – Disconnect your device and replace it with a compatible USB device.

HUB ERROR
→ The USB device connected via a USB hub is not supported by this unit.
  – Connect the USB device directly to this unit using a USB cable.

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 device consumes more than maximum allowable current.
  – Disconnect the USB device and do not use it. Turn the ignition switch OFF and back to ACC or ON. Connect only compliant USB devices.

ERROR-19
→ Communication failed.
  – Perform one of the following operations, then return to the USB source.
    • Disconnect the USB device.
    • Change to a different source.
→ iPhone failure.
  – Disconnect the cable from the iPhone. Once the iPhone's main menu is displayed, reconnect the iPhone and reset it.

ERROR-23
→ USB device was not formatted properly.
  – Format the USB device with FAT12, FAT16 or FAT32.

ERROR-16
→ The iPhone firmware version is old.
  – Update the iPhone version.

→ iPhone failure.
 – Disconnect the cable from the iPhone. Once the iPhone's main menu is displayed, reconnect the iPhone and reset it.

STOP
→ There are no songs in the current list.
 – Select a list that contains songs.

NO BT DEVICE GO TO BT MENU TO REGISTER
→ No Bluetooth device found.
 – Connect the unit and iPhone via Bluetooth (page 11).

CONN. FAILED PRESS BAND KEY TO RETRY
→ Bluetooth connection with iPhone failed.
 – Press **BAND**/ to make a connection again.

DISCONNECTED PRESS BAND KEY TO RETRY
→ Bluetooth connection lost.
 – Press **BAND**/ to make a connection again.

Bluetooth device

ERROR-10
→ The power failed for the Bluetooth module of the unit.
 – Turn the ignition switch OFF and back to ACC or ON.

Pandora

ERROR-19
→ Communication failed.
 – Disconnect the cable from the device. Once the device's main menu is displayed, reconnect the device and reset it.

NOT FOUND
→ The Pandora application has not started running yet.
 – Start up the Pandora application.

RATING ERROR
→ The thumb rating operation was disabled.
 – Run the same command for another track.

CAN'T SKIP
→ The skip operation was disabled.
 – Run the same command for another track.

THUMB ERROR
→ Unable to save thumb rating.
 – Try again later.

BOOKMARK ERR
→ Unable to save BookMark.
 – Try again later.

INOPERABLE
→ The operation to save BookMark or add station was disabled.
 – Run the same command for another track.

UNABLE TO ADD
→ Unable to add station.
 – Try again later.

SKIP LIMIT
→ Due to music licensing restrictions, Pandora limits the total number of skips per hour.
 – Wait until Pandora allows you to skip again.

UPDATE APP
→ This version of the Pandora application is not supported.
 – Connect a device that has a compatible version of the Pandora application installed.

LOG IN ERROR
→ Your Pandora account is not logged in.
  – Disconnect the cable from the device, and log in to your Pandora account. Then reconnect the device.

ERROR
→ Device error message displayed in the Pandora application.
  – Check the connected device.
→ Pandora system is undergoing maintenance.
  – Try again later.

NO STATIONS
→ No station found.
  – Create a station in the Pandora application on your connected device.

NO BT DEVICE GO TO BT MENU TO REGISTER
→ No Bluetooth device found.
  – Connect the unit and the device via Bluetooth (page 11).

CONN. FAILED PRESS BAND KEY TO RETRY
→ Bluetooth connection failed.
  – Press **BAND**/➲ to make a connection again.

CHECK APP PRESS BAND KEY TO RETRY
→ Connection to the Pandora application failed.
  – Press **BAND**/➲ to make a connection again.

DISCONNECTED PRESS BAND KEY TO RETRY
→ Bluetooth connection lost.
  – Press **BAND**/➲ to make a connection again.

STATION LIMIT
→ A new station cannot be added.
  – Delete an old station to open a spot for a new one.

CANNOT DELETE
→ The station could not be deleted.
  – Run the same command for another station.

BAD NETWORK
→ The connected device is out of area.
  – Connect the device to a network.

UNAVAILAVLE
→ The connected device is out of area.
  – Connect the device to a network.
→ The operation was disabled.
  – Run the same command for another station.

CHECK APP
→ An unknown error (including communication error) has occurred.
  – Follow the instructions that appear on the screen.

APP

CONNECT APP
→ Pioneer Smart Sync connection is not made.
  – Make a connection with Pioneer Smart Sync (page 18).

Spotify

NOT FOUND
→ The Spotify application has not started running yet.
  – Start up the Spotify application.

NO BT DEVICE GO TO BT MENU TO REGISTER
→ No Bluetooth device found.
  – Connect the unit and the device via Bluetooth (page 11).

CONN. FAILED PRESS BAND KEY TO RETRY
→ Bluetooth connection failed.

–Press **BAND**/ to make a connection again.

CHECK APP PRESS BAND KEY TO RETRY
→ Connection to the Spotify application failed.
   –Press **BAND**/ to make a connection again.

DISCONNECTED PRESS BAND KEY TO RETRY
→ Bluetooth connection lost.
   –Press **BAND**/ to make a connection again.

CHECK APP
→ An unknown error (including communication error) has occurred.
   –Follow the instructions that appear on the screen.

Handling guidelines

Discs and player

- Use only discs that feature either of the following two logos.

- Use 12-cm discs.
- Use only conventional, fully circular discs.
- The following types of discs cannot be used with this unit:
  – DualDiscs
  – 8-cm discs: Attempts to use such discs with an adaptor may cause the unit to malfunction.
  – Oddly shaped discs
  – Discs other than CDs
  – Damaged discs, including discs that are cracked, chipped or warped
  – CD-R/RW discs that have not been finalized

- Do not 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.
- When using discs that can be printed on label surfaces, check the instructions and the warnings of the discs. Depending on the discs, inserting and ejecting may not be possible. Using such discs may result in damage to this equipment.
- Do not attach commercially available labels or other materials to the discs.
  – The discs may warp making the disc unplayable.
  – The labels may come off during playback and prevent ejection of the discs, which may result in damage to the equipment.

USB storage device

- Connections via USB hubs are not supported.
- Firmly secure the USB storage device before 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.

iPhone

- Do not leave the iPhone in places with high temperatures.

- Firmly secure the iPhone when driving. Do not let the iPhone fall onto the floor, where it may become jammed under the brake or accelerator pedal.
- Incompatible text saved on the iPhone will not be displayed by the unit.

Compressed audio compatibility

- Only the first 32 characters can be displayed as a file name (including the file extension) or a folder name.
- The unit may not work properly depending on the application used to encode WMA files.
- There may be a slight delay at the start of the playback of audio files embedded with image data, or audio files stored on a USB device with numerous folder hierarchies.

⚠ CAUTION
- Pioneer cannot guarantee compatibility with all USB mass storage devices, and assumes no responsibility for any loss of data on media players, smartphones, or other devices while using this product.
- Do not leave discs or a USB storage device in any place that is subject to high temperatures.

WMA files

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 files

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 files
- WAV file formats cannot be connected via MTP.

File extension	.wav
Quantization bits	8 and 16 (LPCM)
Sampling frequency	16 kHz to 48 kHz (LPCM)

AAC files

Compatible format	AAC encoded by iTunes
File extension	.m4a
Sampling frequency	11.025 kHz to 48 kHz
Stereo Bit Rate	16 kbps to 320 kbps, VBR
Apple Lossless	Not compatible
AAC file bought from the iTunes Store (.m4p file extension)	Not compatible

FLAC files
- FLAC file formats cannot be connected via MTP.
- FLAC files may not be playable, depending on the encoder.

File extension	.flac, .fla

Sampling frequency	8/11.025/12/16/22.05/24/32/44.1/48/96 kHz
Quantization bit rate	8/16/24 bit
Channel mode	1/2 ch

Disc

• Regardless of the length of the blank section between the songs from the original recording, compressed audio discs play with a short pause between songs.

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

USB device

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

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 device	Only the first partition can be played.

iPhone compatibility

This unit supports only the following iPhone models. Older versions may not be supported.
Made for
– iPhone XR

– iPhone XS Max
– iPhone XS
– iPhone X
– iPhone 8
– iPhone 8 Plus
– iPhone 7
– iPhone 7 Plus
– iPhone SE
– iPhone 6s
– iPhone 6s Plus
– iPhone 6
– iPhone 6 Plus
– iPhone 5s

• Operations may vary depending on the generation and/or software version of the iPhone.
• Users of iPhone with the Lightning® Connector should use the Lightning to USB Cable (supplied with iPhone).
• Refer to the iPhone manuals for information about the file/format compatibility.
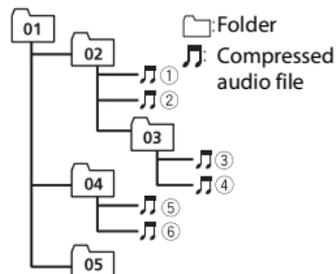• Audiobook, Podcast: Compatible

⚠ CAUTION

Pioneer accepts no responsibility for data lost on the iPhone, 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.
Sequence of audio file depends on the connected device.
Note that the hidden files in a USB device cannot be played back.

Example of a hierarchy

:Folder
♫: Compressed audio file

Level 1 Level 2 Level 3 Level 4

01 to 05: Folder number
① to ⑥: Playback sequence

Copyright and trademark

Bluetooth
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WMA
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Specifications

General

Power source: 14.4 V DC (10.8 V to 15.1 V allowable)
Grounding system: Negative type
Maximum current consumption: 10.0 A
Dimensions (W × H × D):
　　DIN
　　Chassis: 178 mm × 50 mm × 165 mm (7 in. × 2 in. × 6-1/2 in.)
　　Nose: 188 mm × 58 mm × 17 mm (7-3/8 in. × 2-1/4 in. × 5/8 in.)
　　D
　　Chassis: 178 mm × 50 mm × 165 mm (7 in. × 2 in. × 6-1/2 in.)
　　Nose: 170 mm × 46 mm × 17 mm (6-3/4 in. × 1-3/4 in. × 5/8 in.)
Weight: 1 kg (2.2 lbs)

Audio

Maximum power output:
　• 50 W × 4 ch/4 Ω (for no subwoofer)
　• 50 W × 2 ch/4 Ω + 70 W × 1 ch/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 (4 Ω to 8 Ω (2 Ω for 1 ch) allowable)

Preout maximum output level: 2.0 V (DEH-S5200BT/S4200BT), 4.0 V (DEH-S4220BT)
Equalizer (13-Band Graphic Equalizer):
Frequency: 50 Hz/80 Hz/125 Hz/200 Hz/315 Hz/500 Hz/800 Hz/1.25 kHz/2 kHz/3.15 kHz/5 kHz/8 kHz/12.5 kHz
Gain: ±12 dB (2 dB step)
High pass filter:
Frequency: 25 Hz/31.5 Hz/40 Hz/50 Hz/63 Hz/80 Hz/100 Hz/125 Hz/160 Hz/200 Hz/250 Hz
Slope: −6 dB/oct, −12 dB/oct, −18 dB/oct, −24 dB/oct, OFF
Subwoofer/Low pass filter:
Frequency: 25 Hz/31.5 Hz/40 Hz/50 Hz/63 Hz/80 Hz/100 Hz/125 Hz/160 Hz/200 Hz/250 Hz
Slope: −6 dB/oct, −12 dB/oct, −18 dB/oct, −24 dB/oct, −30 dB/oct, −36 dB/oct, OFF
Phase: Normal/Reverse
Speaker level:
+10 dB to −24 dB (1 dB step)
Time alignment:
0 Inch to 140 Inch (1 inch/Step)

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, 8, 9, 9.1, 9.2 (2 ch audio)
AAC decoding format: MPEG-4 AAC (iTunes encoded only) (Ver. 10.6 and earlier)
WAV signal format: Linear PCM (Non-compressed)

USB

USB standard specification: USB 2.0 full speed
Maximum current supply: 1.5 A

USB Protocol:
MSC (Mass Storage Class)
MTP (Media Transfer Protocol)
AOA (Android Open Accessory) 2.0
File system: FAT12, FAT16, FAT32
MP3 decoding format: MPEG-1 & 2 Audio Layer 3
WMA decoding format: Ver. 7, 8, 9, 9.1, 9.2 (2 ch audio)
AAC decoding format: MPEG-4 AAC (iTunes encoded only) (Ver. 10.6 and earlier)
FLAC decoding format: v1.2.1 (Free Lossless Audio Codec)
WAV signal format: Linear PCM (Non-compressed)

FM tuner

Frequency range: 87.9 MHz to 107.9 MHz
Usable sensitivity: 11 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB)
Signal-to-noise ratio: 65 dB (analog broadcasting) (IHF-A network)

AM tuner

Frequency range: 530 kHz to 1 710 kHz
Usable sensitivity: 25 μV (S/N: 20 dB)
Signal-to-noise ratio: 60 dB (analog broadcasting) (IHF-A network)

Bluetooth

Version: Bluetooth 4.0 certified
Output power: +4 dBm Maximum (Power class 2)
BLE (Bluetooth Low Energy) Version: 4.0 certified
BLE (Bluetooth Low Energy) Output power: +3 dBm Maximum
Frequency band(s): 2 400 MHz to 2 483.5 MHz
Bluetooth profiles:
GAP (Generic Access Profile)
SDAP (Service Discovery Application Profile)
HFP (Hands Free Profile) 1.6
PBAP (Phone Book Access Profile)

A2DP (Advanced Audio Distribution Profile)
AVRCP (Audio/Video Remote Control Profile) 1.5
SPP (Serial Port Profile) 1.1

CTA2006 Specifications

Power output: 14 W RMS × 4 Channels (4 Ω and $\leqq$ 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.