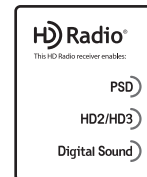


CD RDS RECEIVER


DEH-X5800HD
DEH-X5810HD

Pioneer

English



Owner's Manual

 **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.

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About this manual:

- In the following instructions, a USB memory or USB audio player are referred to as “USB device”.
- In this manual, iPod and iPhone are referred to as “iPod”.

Before You Start

Thank you for purchasing this PIONEER product

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

Note

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

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

The Safety of Your Ears is in Your Hands

Get the most out of your equipment by playing it at a safe level—a level that lets the sound come through clearly without annoying blaring or distortion and, most importantly, without affecting your sensitive hearing. Sound can be deceiving.

Over time, your hearing “comfort level” adapts to higher volumes of sound, so what sounds “normal” can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

ESTABLISH A SAFE LEVEL:

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

BE SURE TO OBSERVE THE FOLLOWING GUIDELINES:

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

⚠ WARNING

- Do not attempt to install or service this product by yourself. Installation or servicing of this product by persons without training and experience in electronic equipment and automotive accessories may be dangerous and could expose you to the risk of electric shock, injury or other hazards.
- Do not attempt to operate the unit 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 device.
- This product contains chemicals known to the State of California and other governmental entities to cause cancer and birth defects or other reproductive harm. **Wash hands after handling.**

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

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

⚠ CAUTION

- Do not allow this unit to come into contact with moisture and/or liquids. Electrical shock could result. Also, damage to this unit, smoke, and overheating could result from contact with liquids.
- Always keep the volume low enough to hear outside sounds.

CLASS 1 LASER PRODUCT

After-sales service for Pioneer products

Please contact the dealer, distributor from where you purchased this unit or the authorized PIONEER Service Station for after-sales service or any other information. In case the necessary information is not available, please contact the companies listed below:

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

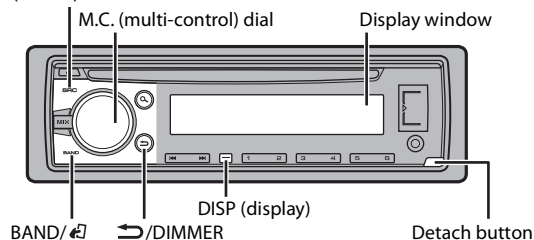
For warranty information please see the Limited Warranty sheet included with this unit.

Getting Started

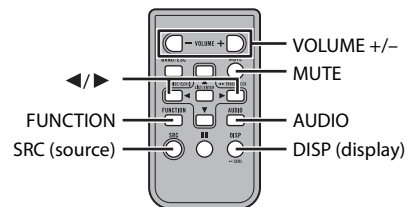
Basic operation

DEH-X5800HD/X5810HD

SRC (source)/OFF



Remote Control



Frequently used operations

The available buttons vary depending on the unit.

Purpose	Operation	
	Head Unit	Remote Control
Turn on the power*	Press SRC/OFF to turn on the power. Press and hold SRC/OFF to turn off the power.	Press SRC to turn on the power. Press and hold SRC to turn off the power.
Adjust the volume	Turn the M.C. dial.	Press VOLUME + or - . Press MUTE to mute the unit. Press again to unmute.
Select a source	Press SRC/OFF repeatedly.	Press SRC repeatedly.
Change the display information	Press DISP repeatedly.	Press DISP repeatedly.
Return to the previous display/list	Press ↶/DIMMER .	Press ◀/▶ to select the next/previous folder.
Return to the normal display from the menu	Press BAND/⏪ .	-

* 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.

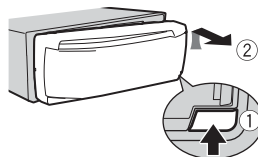
Display indication

Indication	Description
	Appears when a lower tier of the menu or folder exists.
	Appears when the Q button is pressed.
LOC	Appears when the local seek tuning function is set (page 10).
S.Rtnv	Appears when the sound retriever function is set (page 11).
	Appears when random/shuffle play is set.
	Appears when repeat play is set.
	Appears when the iPod control function is set (page 8).

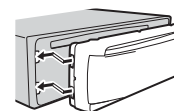
Detaching the front panel

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

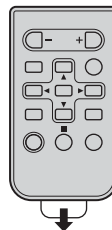


Important

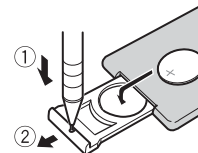
- Avoid subjecting the front panel to excessive shock.
- Keep the front panel out of direct sunlight and high temperatures.
- Always store the detached front panel in a protective case or bag.

Preparing the remote control

Remove the insulation sheet before use.



How to replace the battery



Insert the CR2025 (3 V) battery with the plus (+) and minus (-) poles orientated properly.

WARNING

- Keep the battery out of the reach of children. Should the battery be swallowed, consult a doctor immediately.
- Do not expose the battery or remote control to excessive heat such as direct sunlight or fire.

CAUTION

- There is a potential danger of explosion if the battery is incorrectly replaced. When replacing the battery, replace it with the same type.
- Do not handle or store the battery with metallic tools or objects.
- If the battery leaks, remove the battery and wipe the remote control completely clean. Then install a new battery.
- When disposing of used batteries, please comply with governmental regulations or environmental public institutions' rules that apply in your country/area.

Important

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

Setting the clock (CLOCK SET)

When you turn the ignition switch to ON after installation, [SET UP :YES] appears in the display.

1 Press the M.C. dial.

The setup menu disappears after 30 seconds of no operation. If you prefer not to set at this time, turn the **M.C.** dial to select [NO], then press to confirm.

2 Turn the M.C. dial to adjust the hour, then press to confirm.

The indicator moves to the minute setting automatically.

3 Turn the M.C. dial to adjust the minute, then press to confirm.

[QUIT] appears.

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

NOTES

- You can cancel the menu setting by pressing **SRC/OFF**.
- This setting can be made at any time. See page 12 for more details.

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
SP-P/O MODE	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.
[REAR/SUB.W]	
[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 RESET	Select [YES] to initialize the unit settings. The unit will be restarted automatically.
[YES], [CANCEL]	(Some of the settings may be retained even after resetting the unit.)

HD Radio™ Technology

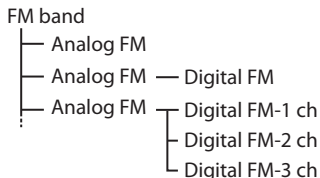
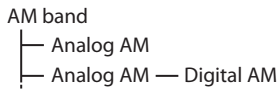
The tuner frequencies on this unit are allocated for use in North America. Use in other areas may result in poor reception.

About HD Radio™ stations

HD Radio™ stations offer high-quality audio and data services. HD Radio stations are brought to you by local FM/AM stations.

HD Radio stations feature the following:

- High quality audio
- FM multicasting
- Data services



PSD

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

HD2/HD3

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

Digital Sound

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

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/).

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

Depending on the reception status, seek tuning can be changed between digital station seek and all station seek (page 11).

To store stations manually

- 1 While receiving the station you want to store, press and hold one of the number buttons (1/ to 6/)

Alert history

- 1 While receiving an emergency announcement, press **Q**.
The last four items that have been received appear.
- 2 Turn the **M.C.** dial to select one of the items, then press to confirm.
The detail of the selected item appears.

NOTE

[/TEST/] appears at the beginning of an item if it was a test message.

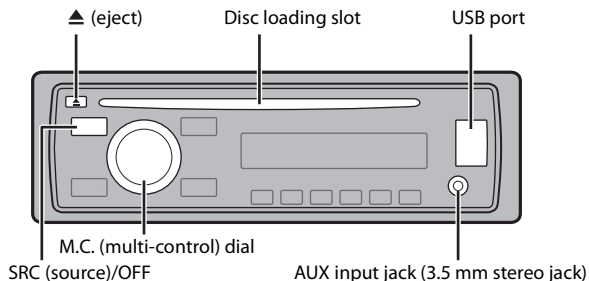
To delete an alert history

- 1 Press and hold the **M.C.** dial in step 2 above.
- 2 Turn the **M.C.** dial to select [DELETE YES], then press to confirm.

CD/USB/iPod/AUX

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)/iPod

- 1 Open the USB port cover.
- 2 Plug in the USB device/iPod using an appropriate cable.

NOTE

To automatically switch to [USB] source when a USB device/iPod is connected to the unit, set [USB AUTO] to [ON] in the SYSTEM settings (page 12).

⚠ CAUTION

Use an optional Pioneer USB cable (CD-U50E) 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

For details on AOA connection, see page 10.

MTP connection

A device installed with Android OS 4.0 or later can be connected to the unit via MTP, using the cable supplied with the device. However, depending on the connected device and 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 cannot be used with the MIXTRAX function.

NOTE

If you use an MTP connection, [ANDROID WIRED] needs to be set to [MEMORY] in the SYSTEM settings (page 12).

AUX

- 1 Insert the stereo mini plug into the AUX input jack.
- 2 Press SRC/OFF to select [AUX] as the source.

NOTE

If [AUX] is set to [OFF] in the SYSTEM settings, [AUX] cannot be selected as a source (page 12).

Operations

You can make various adjustments in the FUNCTION settings (page 10).

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/album*1	Press 1/▲ or 2/√.
Select a track/song (chapter)	Press ◀◀ or ▶▶.
Fast forward or reverse	Press and hold ◀◀ or ▶▶.
Search for a file from a list	<ol style="list-style-type: none"> 1 Press 🔍 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.
Alphabetical search (iPod only)	<ol style="list-style-type: none"> 1 Press 🔍 to display the list. 2 Turn the M.C. dial to select the desired category list, then press 🔍 to enter the alphabetical search mode. (Turning the M.C. dial twice also enters the alphabetical search mode.) 3 Turn the M.C. dial to select a letter, then press to display the alphabetical list. To cancel alphabetical search, press ⏪ / DIMMER.
Repeat play	Press 6/↺.
Random/shuffle play	Press 5/🎲.
Shuffle all play (iPod only)	Press and hold 5/🎲.

Purpose	Operation
Pause/resume playback	Press 4/PAUSE .
Sound retriever*1*2	Press 3/S.Rtrv. [1]: Effective for low compression rates [2]: Effective for high compression rates
Return to root folder (CD/USB only)*1	Press and hold BAND/ # .
Switch between compressed audio and CD-DA (CD only)	Press BAND/ # .
Change drives in USB device (Devices that support the USB mass storage device class protocol only)	Press BAND/ # .


*1 Compressed audio files only

*2 This function is disabled when USB is selected as a source and the MIXTRAX function is on.

Useful functions for iPod

Link play mode

You can access songs based on the artist, album, or genre currently playing.

- 1 While listening to a song, press and hold  to enter the link play mode.
- 2 Turn the M.C. dial to select the mode ([ARTIST], [ALBUM], [GENRE]), then press to confirm.
The selected song/album will be played after the currently playing song.

NOTE

The selected song/album may be canceled if you use functions other than those from the link play mode (e.g. fast forward and reverse).

iPod control

You can control the unit via a connected iPod.

The following iPod models are not compatible with this function.

- iPod nano 1st generation, iPod with video

- 1 Press **BAND/ #** during playback, then select the control mode.
[CONTROL iPod]: The unit's iPod function can be operated from the connected iPod.
[CONTROL AUDIO]: The unit's iPod function can only be operated by the buttons on the unit or supplied remote control. In this mode, the connected iPod cannot be turned on or off.

NOTES

- Switching the control mode to [CONTROL iPod] pauses song playback. Use the connected iPod to resume playback.

- The following operations are still accessible from the unit, even if the control mode is set to [CONTROL iPod].
– Pause, fast forward/reverse, song/chapter selection
- The volume can only be adjusted from the unit.

About MIXTRAX (USB/iPod only)

The MIXTRAX function creates a non-stop mix of your music library, accompanied by illumination effects. For details on MIXTRAX settings, see page 13.

NOTES

- This function is not compatible with an Android device connected via MTP.
- When USB is selected as a source and the MIXTRAX function is in use, the sound retriever function is disabled.
- 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 **MIX** to turn MIXTRAX on/off.

App Mode

You can enjoy listening to an application on an iPhone via the unit. In some cases, you can control an application by using the unit. For details on compatible devices, visit our website.

Important

Use of third party apps may involve or require the provision of personally identifiable information, whether through the creation of a user account or otherwise, and for certain applications, the provision of geolocation data.

ALL THIRD PARTY APPS ARE THE SOLE RESPONSIBILITY OF THE PROVIDERS, INCLUDING WITHOUT LIMITATION COLLECTION AND SECURITY OF USER DATA AND PRIVACY PRACTICES. BY ACCESSING THIRD PARTY APPS, YOU AGREE TO REVIEW THE TERMS OF SERVICE AND PRIVACY POLICIES OF THE PROVIDERS. IF YOU DO NOT AGREE WITH THE TERMS OR POLICIES OF ANY PROVIDER OR DO NOT CONSENT TO THE USE OF GEOLOCATION DATA WHERE APPLICABLE, DO NOT USE THAT THIRD PARTY APP.

For iPhone users

This function is compatible with iPhones and iPod touches installed with iOS 5.0 or later.

NOTE

PIONEER IS NOT LIABLE FOR ANY THIRD PARTY APPS OR CONTENT, INCLUDING WITHOUT LIMITATION THEIR ACCURACY OR COMPLETENESS. THE CONTENT AND FUNCTIONALITY OF SUCH APPS ARE THE SOLE RESPONSIBILITY OF THE APP PROVIDER.

Playback of an application via the unit

- 1 Connect this unit with the mobile device.
 - iPhone via USB (page 7)
- 2 Press **SRC/OFF** to select [APP].
- 3 Operate the mobile device to start up the application.

Basic operations

You can make various adjustments in the FUNCTION settings (page 10).

Purpose	Operation
Select a track	Press ◀◀ or ▶▶ .
Fast forward or reverse	Press and hold ◀◀ or ▶▶ .
Pause/resume playback	Press BAND/ # .

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 7)
- 2 Press **SRC/OFF** to select [PANDORA].
- 3 Launch the Pandora application on the mobile device and start playback.

Basic operations

You can make various adjustments in the FUNCTION settings (page 10).

Purpose	Operation
Skip a track	Press ▶▶ .

Purpose	Operation
Switch between Shuffle and the station	Press Q (list), then turn the M.C. dial to select the Shuffle or the desired station.
Change the sort order	Press Q (list), 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	<ol style="list-style-type: none"> 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 ↵/DIMMER in step 1.
Pause/resume playback	Press 4/PAUSE .
Sound retriever*	Press 3/5.Rtrv. [1]: Effective for low compression rates [2]: Effective for high compression rates
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/🔍 .

* This function is disabled when the MIXTRAX function is on.

NOTE

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

Car Remote Mode

You can operate the unit from a car remote application 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.

⚠ 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 iPhones and iPod touches installed with iOS 8.0 or later.

For Android device users

This function is compatible with devices that have Android OS 4.1 or later installed and also support AOA (Android Open Accessory) 2.0.

Making the car remote connection

- 1 Connect this unit with the mobile device.**
 - iPhone/Android device via USB (page 7)Proceed to step 6 if you select the USB connection for iPhone.
- 2 Press the M.C. dial to display the main menu.**
- 3 Turn the M.C. dial to select [SYSTEM], then press to confirm.**
- 4 Turn the M.C. dial to select [ANDROID WIRED], then press to confirm.**
- 5 Turn the M.C. dial to select [APP CONTROL] for an Android device connected via USB.**

If [ON] is selected in [P.APP AUTO ON] (page 12), the car remote application on the Android device starts automatically, and all the steps are finished.

NOTE

If the car remote application has not been installed on your Android device yet, a message that prompts you to install the application will appear on your Android device. Select [OFF] in [P.APP AUTO ON] to clear the message (page 12).
- 6 Press SRC/OFF to select any source.**
- 7 Press and hold the M.C. dial.**

The car remote application on the mobile device starts.

Listening to music on Android

- 1 Press SRC/OFF to select [ANDROID].**

Basic operations

Purpose	Operation
Select a track	Press ◀◀ or ▶▶ .
Fast forward or reverse	Press and hold ◀◀ or ▶▶ .
Pause/resume playback	Press 4/PAUSE .
Sound retriever	Press 3/S.Rtrv . [1]: Effective for low compression rates [2]: Effective for high compression rates

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 10)
 - AUDIO settings (page 11)
 - SYSTEM settings (page 12)
 - ILLUMINATION settings (page 12)
 - MIXTRAX settings (page 13)
- 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 HD RADIO	Store the six strongest stations on the number buttons (1/▲ to 6/↷) automatically.
LOCAL HD RADIO	FM: [OFF], [LV1], [LV2], [LV3], [LV4] Restrict the tuning station according to the signal strength. AM: [OFF], [LV1], [LV2]

Menu Item	Description
HD SEEK* HD RADIO [ON], [OFF]	Change seek tuning setting between digital station seek ([ON]) and all station seek ([OFF]) depending on the reception status.
BLEND* HD RADIO [ON], [OFF]	Set [ON] to switch to the analog broadcast of the same frequency level automatically if a digital broadcast reception is poor. Set [OFF] to receive analog broadcast only.
ACTIVE RADIO HD RADIO [ON], [OFF]	Interrupt the currently selected source with emergency announcements or test messages. A beep can be heard when an emergency announcement or test message breaks in. Select [OFF] to disable this function. (In some cases when a test message is received, a notification will appear in the display instead of a beep.)
S.RTRV CD USB iPod PANDORA APP ANDROID [1] (effective for low compression rates), [2] (effective for high compression rates), [OFF]	Enhance compressed audio and restore rich sound. Not available when: • USB is selected as a source and the MIXTRAX function is set to on. • CD-DA/CD-TEXT is played back.
AUDIO BOOK iPod [FASTER], [NORMAL], [SLOWER]	Change the playback speed. (Not available when [CONTROL iPod] is selected in the control mode.)
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.
PAUSE APP	Pause or resume playback.

* If [HD SEEK] is set to [ON] and [BLEND] is set to [OFF], the tuner cannot receive broadcasts. In this case, [HD SEEK] or [BLEND] is changed automatically as follows:

- When [HD SEEK] is set to [ON], if you switch [BLEND] from [ON] to [OFF], [HD SEEK] is changed to [OFF].
- When [BLEND] is set to [OFF], if you switch [HD SEEK] from [OFF] to [ON], [BLEND] is changed to [ON].

AUDIO settings

Menu Item	Description
FADER*1	Adjust the front and rear speaker balance.
BALANCE	Adjust the left and right speaker balance.
EQ SETTING	Select or customize the equalizer curve. [CUSTOM1] can be set separately for each source. However, each of the below combinations are set to the same setting automatically. • USB, iPod, PANDORA (iPhone), ANDROID, and APP (iPhone) [CUSTOM2] is a shared setting used for all sources.
EQ SETTING [SUPER BASS], [POWERFUL], [NATURAL], [VOCAL], [CUSTOM1], [CUSTOM2], [FLAT]	Select an equalizer band and level for further customizing. Equalizer band: [80HZ], [250HZ], [800HZ], [2.5KHZ], [8KHZ] Equalizer level: [+6] to [-6]
LOUDNESS [OFF], [LOW], [MID], [HI]	Compensate for clear sound at low volume.
SUB.W*2 [NOR], [REV], [OFF]	Select the subwoofer phase.
SUB.W CTRL*2*3 Cut-off frequency: [50HZ], [63HZ], [80HZ], [100HZ], [125HZ], [160HZ], [200HZ] Output level: [-24] to [+6] Slope level: [-12], [-24]	Only frequencies lower than those in the selected range are output from the subwoofer.
BASS BOOST [0] to [+6]	Select the bass boost level.
HPF SETTING Cut-off frequency: [OFF], [50HZ], [63HZ], [80HZ], [100HZ], [125HZ], [160HZ], [200HZ] Slope level: [-12], [-24]	Only frequencies higher than the high-pass filter (HPF) cutoff are output from the speakers.

Menu Item	Description
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. • USB, iPod, PANDORA (iPhone), ANDROID, and APP (iPhone)

*1 Not available when [SUB.W/SUB.W] is selected in [SP-P/O MODE] in the INITIAL settings (page 5).

*2 Not available when [REAR/REAR] is selected in [SP-P/O MODE] in the INITIAL settings (page 5).

*3 Not available when [OFF] is selected in [SUB.W].

SYSTEM settings

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

Menu Item	Description
CLOCK SET	
	Set the clock (page 5).
12H/24H	
[12H], [24H]	Select the time notation.
INFO DISPLAY	
	Display the item on the sub information display. Select from "SPEANA", "LEVEL METER", "SOURCE", "CLOCK", and "OFF".
AUX	
[ON], [OFF]	Set to [ON] when using an auxiliary device connected to the unit.
USB AUTO	
[ON], [OFF]	Select [ON] to automatically switch to [USB] source when a USB device/iPod is connected to the unit. Select [OFF] when a USB device/iPod is being connected to the unit just for charging.
ANDROID WIRED	
[MEMORY], [APP CONTROL]	Select the appropriate connection method for an Android device.

Menu Item	Description
P.APP AUTO ON	
[ON], [OFF]	Select [ON] to automatically launch the car remote application when an Android device is connected to the unit via AOA. (Not available when [MEMORY] is selected in [ANDROID WIRED].)

ILLUMINATION settings

Menu Item	Description
COLOR	
[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]	Change the display brightness.
BRIGHTNESS	
[1] to [10]	Change the display brightness. The available setting ranges differ depending on [DIM SETTING].
ILLUMI FX	
[ON], [OFF]	The illumination effect can be seen when a CD is inserted/ejected. The illumination effect will activate when the ACC power is turned on/off regardless of this setting.

MIXTRAX settings

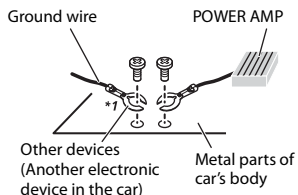
Menu Item	Description
SHORT PLAYBACK	
[1.0 MIN], [1.5 MIN], [2.0 MIN], [2.5 MIN], [3.0 MIN], [OFF]	Select the length of the playback time.
FLASH AREA	
[KEY/DISPLAY], [KEY], [OFF]	Select the area for the illumination effect. When [OFF] is selected, the color set under the ILLUMINATION settings (page 12) is used as the display color.
FLASH PATTERN	
[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.
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.

Connections/Installation

Connections

⚠ WARNING

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



*1 Not supplied for this unit

⚠ Important

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



ACC position



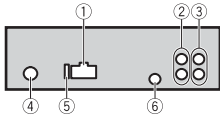
No ACC position

- Use this unit with a 12-volt battery and negative grounding only. Failure to do so may result in a fire or malfunction.
- To prevent a short-circuit, overheating or malfunction, be sure to follow the directions below.
 - Disconnect the negative terminal of the battery before installation.
 - Secure the wiring with cable clamps or adhesive tape. Wrap adhesive tape around wiring that comes into contact with metal parts to protect the wiring.
 - Place all cables away from moving parts, such as the shift lever and seat rails.
 - Place all cables away from hot places, such as near the heater outlet.
 - Do not connect the yellow cable to the battery by passing it through the hole to the engine compartment.
 - Cover any disconnected cable connectors with insulating tape.
 - Do not shorten any cables.
 - Never cut the insulation of the power cable of this unit in order to share the power with other devices. The current capacity of the cable is limited.
 - Use a fuse of the rating prescribed.
 - Never wire the negative speaker cable directly to ground.
 - Never band together negative cables of multiple speakers.
- When this unit is on, control signals are sent through the blue/white cable. Connect this cable to the system remote control of an external power amp or the vehicle's auto-antenna relay control terminal (max. 300mA 12 V DC). If the

vehicle is equipped with a glass antenna, connect it to the antenna booster power supply terminal.

- Never connect the blue/white cable to the power terminal of an external power amp. Also, never connect it to the power terminal of the auto antenna. Doing so may result in battery drain or a malfunction.

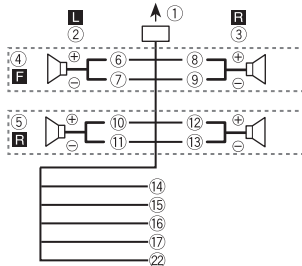
This unit



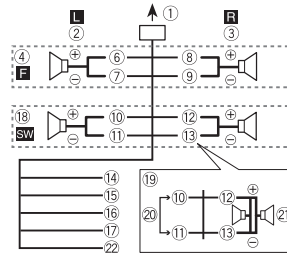
- 1 Power cord input
- 2 Rear output or subwoofer output
- 3 Front output
- 4 Antenna input
- 5 Fuse (10 A)
- 6 Wired remote input
Hard-wired remote control adapter can be connected (sold separately).

Power cord

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



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



Important

In the case of 19 above, two 4 Ω subwoofers wired in parallel will represent a 2 Ω load.

- 1 To power cord input
- 2 Left
- 3 Right
- 4 Front speaker
- 5 Rear speaker
- 6 White
- 7 White/black
- 8 Gray
- 9 Gray/black
- 10 Green
- 11 Green/black
- 12 Violet
- 13 Violet/black
- 14 Black (chassis ground)
Connect to a clean, paint-free metal location.
- 15 Yellow
Connect to the constant 12 V supply terminal.
- 16 Red
Connect to terminal controlled by the ignition switch (12 V DC).
- 17 Blue/white

Connect to the system control terminal of the power amp or auto-antenna relay control terminal (max. 300 mA 12 V DC).

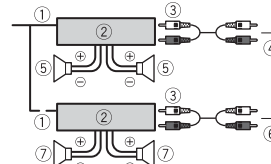
- 18 Subwoofer (4 Ω)
- 19 When using a subwoofer of 70 W (2 Ω), be sure to connect the subwoofer to the violet and violet/black leads of this unit. Do not connect anything to the green and green/black leads.
- 20 Not used.
- 21 Subwoofer (4 Ω) × 2
- 22 Orange/white
Connect to a car's illumination signal.

NOTE

Change the initial menu of this unit. Refer to [SP-P/O MODE] (page 5). The subwoofer output of this unit is monaural.

Power amp (sold separately)

Perform these connections when using the optional amplifier.

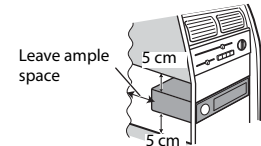


- 1 System remote control
Connect to blue/white cable.
- 2 Power amp (sold separately)
- 3 Connect with RCA cables (sold separately)
- 4 To front output
- 5 Front speaker
- 6 To rear output or subwoofer output
- 7 Rear speaker or subwoofer

Installation

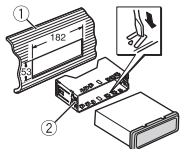
Important

- Check all connections and systems before final installation.
- Do not use unauthorized parts as this may cause malfunctions.
- Consult your dealer if installation requires drilling of holes or other modifications to the vehicle.
- Do not install this unit where:
 - it may interfere with operation of the vehicle.
 - it may cause injury to a passenger as a result of a sudden stop.
- The semiconductor laser will be damaged if it overheats. Install this unit away from hot places such as near the heater outlet.
- Optimum performance is obtained when the unit is installed at an angle of less than 60°.
- When installing, to ensure proper heat dispersal when using this unit, make sure you leave ample space behind the rear panel and wrap any loose cables so they are not blocking the vents.



DIN mount installation

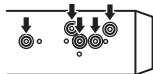
- 1 Insert the supplied mounting sleeve into the dashboard.
- 2 Secure the mounting sleeve by using a screwdriver to bend the metal tabs (90°) into place.



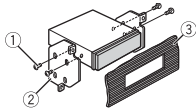
- ① Dashboard
 - ② Mounting sleeve
- Make sure that the unit is installed securely in place. An unstable installation may cause skipping or other malfunctions.

When not using the supplied mounting sleeve

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



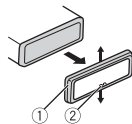
- 2 Tighten two screws on each side.



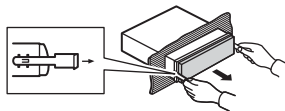
- ① Screw
 - ② Mounting bracket
 - ③ Dashboard or console
- Use either truss (5 mm × 9 mm) or flush surface (5 mm × 9 mm) screws, depending on the bracket screw holes.

Removing the unit (installed with the supplied mounting sleeve)

- 1 Remove the trim ring.

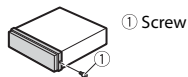


- ① Trim ring
 - ② Notched tab
- Releasing the front panel allows easier access to the trim ring.
 - When reattaching the trim ring, point the side with the notched tab down.
- 2 Insert the supplied extraction keys into both sides of the unit until they click into place.
 - 3 Pull the unit out of the dashboard.



To secure the front panel

The front panel can be secured with the supplied screw.



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.

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, or switch to a different source, then back to the CD player.

ERROR-15

- The inserted disc is blank.
 - Replace the disc.

ERROR-23

- Unsupported CD format.
 - Replace the disc.

FORMAT READ

- Sometimes there is a delay between the start of playback and when you start to hear any sound.
 - Wait until the message disappears and you hear sound.

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/iPod

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.
- The iPod operates correctly but does not charge.
 - Make sure the connection cable for the iPod has not shorted out (e.g., not caught in metal objects). After checking, turn the ignition switch OFF and back to ON, or disconnect the iPod and reconnect.

ERROR-19

- Communication failed.
 - Perform one of the following operations, then return to the USB source.
 - Turn the ignition switch OFF and back to ON.
 - Disconnect the USB device.
 - Change to a different source.
- iPod failure.
 - Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.

ERROR-23

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

ERROR-16

- The iPod firmware version is old.
 - Update the iPod version.
- iPod failure.
 - Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.

STOP

- There are no songs in the current list.
 - Select a list that contains songs.

NOT FOUND

- No related songs.
 - Transfer songs to the iPod.

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.

START UP APP

- The Pandora application has not started running yet.
 - Start up the Pandora application.

INOPERABLE

- The operation was disabled.
 - Run the same command for another track.

TRY LATER

- Unable to save thumb rating.
- Unable to save BookMark.
- Unable to add station.
 - Try again later.

MAINTENANCE

- Pandora system is undergoing maintenance.
 - 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.

LOGIN 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.

CHECK DEVICE

- Device error message displayed in the Pandora application.
 - Check the connected device.

PLEASE CREATE A STATION ON THE PHONE

- No station found.
 - Create a station in the Pandora application on your connected device.

SELECT STN

- No station selected.
 - Select a station.

STATION FULL

- A new station cannot be added.
 - Delete an old station to open a spot for a new one.

CAN'T DELETE

- The station could not be deleted.
 - Run the same command for another station.

NO NETWORK

- The connected device is out of area.
 - Connect the device to a network.

NO SERVICE IN THIS COUNTRY

- The connected device is out of area.
 - Connect the device to a network.

STN DELETED

- The operation was disabled.
 - Run the same command for another station.

Apps

START UP APP

- The application has not started running yet.
 - Operate the mobile device to start up the application.

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.

iPod

- Do not leave the iPod in places with high temperatures.
- 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.
- The settings of the iPod such as the equalizer and repeat play are changed automatically when the iPod is connected to the unit. Once the iPod is disconnected, those settings will return to the original settings.
- Incompatible text saved on the iPod 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), 4 (MSADPCM)
Sampling frequency	16 kHz to 48 kHz (LPCM), 22.05 kHz and 44.1 kHz (MS ADPCM)

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 500
Playable files	Up to 15 000
Playback of copyright-protected files	Not compatible
Partitioned USB device	Only the first partition can be played.

iPod compatibility

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

Made for

- iPod touch (1st through 5th generation)
- iPod classic
- iPod with video
- iPod nano (1st through 7th generation)
- iPhone 6
- iPhone 6 Plus
- iPhone 5s
- iPhone 5c
- iPhone 5
- iPhone 4s
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone

- Operations may vary depending on the generation and/or software version of the iPod.
- Users of iPod with the Lightning Connector should use the Lightning to USB Cable (supplied with iPod).
- Users of iPod with the Dock Connector should use the CD-IU51. For details, consult your dealer.
- Refer to the iPod manuals for information about the file/format compatibility.
- Audiobook, Podcast: Compatible

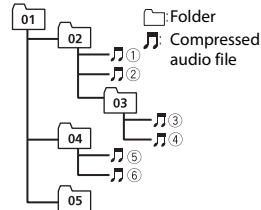
CAUTION

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

Sequence of audio files

The user cannot assign folder numbers and specify playback sequences with this unit. 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



Level 1 Level 2 Level 3 Level 4

01 to 05: Folder number

① to ⑥: Playback sequence

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iTunes

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WMA

Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

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iPod & iPhone

iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc. "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

Android™

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Pandora® internet radio

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MIXTRAX

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HD Radio™ Technology

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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.)

Noise: 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.)

Noise: 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 allowable)

Preout maximum output level: 2.0 V

Loudness contour: +10 dB (100 Hz), +6.5 dB (10 kHz) (volume: -30 dB)

Equalizer (5-Band Graphic Equalizer):

Frequency: 80 Hz/250 Hz/800 Hz/2.5 kHz/8 kHz

Equalization range: ±12 dB (2 dB step)

Subwoofer (mono):

Frequency: 50 Hz/63 Hz/80 Hz/100 Hz/125 Hz/160 Hz/200 Hz

Slope: -12 dB/oct, -24 dB/oct

Gain: +6 dB to -24 dB

Phase: Normal/Reverse

CD player

System: Compact disc audio system

Usable discs: Compact disc

Signal-to-noise ratio: 94 dB (1 kHz) (IHF-A network)

Number of channels: 2 (stereo)

MP3 decoding format: MPEG-1 & 2 Audio Layer 3

WMA decoding format: Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio) (Windows Media Player)

WAV signal format: Linear PCM & MS ADPCM (Non-compressed)

USB

USB standard specification: USB 2.0 full speed

Maximum current supply: 1 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, 7.1, 8, 9, 10, 11, 12 (2 ch audio) (Windows Media Player)

WAV signal format: Linear PCM & MS ADPCM (Non-compressed)

Power output: 14 W RMS × 4 Channels (4 Ω and $\leq 1\%$ THD+N)

S/N ratio: 91 dBA (reference: 1 W into 4 Ω)

NOTE

Specifications and the design are subject to modifications without notice.

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: 80 dB (digital broadcasting) (IHF-A network)

Signal-to-noise ratio: 72 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: 80 dB (digital broadcasting) (IHF-A network)

Signal-to-noise ratio: 62 dB (analog broadcasting) (IHF-A network)

CEA2006 Specifications

