Pioneer

AVH-2440NEX
AVH-2400NEX
AVH-1440NEX
AVH-1400NEX

DVD RDS AV RECEIVER

English

SiriusXM READY

pandora®

Operation 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.

Contents

Thank you for buying this Pioneer product.
Please read through these instructions so you will know how to operate your model properly. After you have finished reading the instructions, keep this document in a safe place for future reference.

Important

The screen shown in the examples may differ from actual screens, which may be changed without notice for performance and function improvements.

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Precaution

Information to user

–MODEL NO.: AVH-2440NEX, AVH-2400NEX, AVH-1440NEX, AVH-1400NEX
FCC ID: EW4C95
IC: 4250A-C95
–This device complies with Part 15 of FCC Rules and Innovation, Science, and Economic Development Canada licence-exempt RSSs. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.
–The Bluetooth antenna cannot be removed (or replaced) by user.
–This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the ISED radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20 cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

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

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

CAUTION
This product is a Class 1 laser product classified under the safety standard, IEC 60825-1:2007, and contains a class 1M laser module. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

CAN ICES-3 B/NMB-3 B

⚠ WARNING

- 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***.
- Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product, and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered with items (such as papers, floor mat, cloths).

⚠ CAUTION

This product is evaluated in moderate and tropical climate condition under the Audio, video and similar electronic apparatus - Safety requirements, IEC 60065.

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.

Important safety information

⚠ 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 allow this product to come into contact with liquids. Electrical shock could result. Also, damage to the product, smoke, and overheating could result from contact with liquids.
- If liquid or foreign matter should get inside this product, park your vehicle in a safe place, turn the ignition switch off (ACC OFF) immediately and consult your dealer or the nearest authorized Pioneer Service Station. Do not use this product in this condition because doing so may result in a fire, electric shock, or other failure.
- If you notice smoke, a strange noise or odor from this product, or any other abnormal signs on the LCD screen, turn off the power immediately and consult your dealer or the nearest authorized Pioneer Service Station. Using this product in this condition may result in permanent damage to the system.
- Do not disassemble or modify this product, as there are high-voltage components inside which may cause an electric shock. Be sure to consult your dealer or the nearest authorized Pioneer Service Station for internal inspection, adjustments or repairs.

Before using this product, be sure to read and fully understand the following safety information:

- Do not operate this product, any applications, or the rear view camera option (if purchased) if doing so will divert your attention in any way from the safe operation of your vehicle. Always observe safe driving rules and follow all existing traffic regulations. If you experience difficulty in operating this product, pull over, park your vehicle in a safe location and apply the parking brake before making the necessary adjustments.
- Never set the volume of this product so high that you cannot hear outside traffic and emergency vehicles.
- To promote safety, certain functions are disabled unless the vehicle is stopped and the parking brake is applied.
- Keep this manual handy as a reference for operating procedures and safety information.
- Do not install this product where it may (i) obstruct the driver's vision, (ii) impair the performance of any of the vehicle's operating systems or safety features, including air bags or hazard lamp buttons or (iii) impair the driver's ability to safely operate the vehicle.
- Please remember to fasten your seat belt at all times while operating your vehicle. If you are ever in an accident, your injuries can be considerably more severe if your seat belt is not properly buckled.
- Never use headphones while driving.

- Rear visibility systems (backup cameras) are required in certain new vehicles sold in the U.S. and Canada. U.S. regulations began according to a two year phase-in on May 1, 2016, and both the U.S. and Canada require that all such vehicles manufactured on or after May 1, 2018 have rear visibility systems. **Owners of vehicles equipped with compliant rear visibility systems should not install or use this product in a way that alters or disables that system's compliance with applicable regulations.** If you are unsure whether your vehicle has a rear visibility system subject to the U.S. or Canadian regulations, please contact the vehicle manufacturer or dealer.

  If your vehicle has a compliant backup camera that displays the backup view through the factory receiver, do not use the Pioneer receiver unless it is connected to and displays the same view as the factory backup camera. Connection to the factory backup camera will require an adaptor, sold separately. Not all vehicles may be able to connect. Please check with a qualified professional installer for installation options specific to your vehicle.

Parking brake interlock

Certain functions (such as viewing of video image and certain touch panel key operations) offered by this product could be dangerous (possibly resulting in serious injury or death) and/or unlawful if used while driving. To prevent such functions from being used while the vehicle is in motion, there is an interlock system that senses when the parking brake is set and when the vehicle is moving. If you attempt to use the functions described above while driving, they will become disabled until you stop the vehicle in a safe place, and (1) apply the parking brake, (2) release the parking brake, and then (3) apply the parking brake again. Please keep the brake pedal pushed down before releasing the parking brake.

To ensure safe driving

⚠ WARNING

- **LIGHT GREEN LEAD AT POWER CONNECTOR IS DESIGNED TO DETECT PARKED STATUS AND MUST BE CONNECTED TO THE POWER SUPPLY SIDE OF THE PARKING BRAKE SWITCH. IMPROPER CONNECTION OR USE OF THIS LEAD MAY VIOLATE APPLICABLE LAW AND MAY RESULT IN SERIOUS INJURY OR DAMAGE.**
- **Do not take any steps to tamper with or disable the parking brake interlock system which is in place for your protection. Tampering with or disabling the parking brake interlock system could result in serious injury or death.**
- **To avoid the risk of damage and injury and the potential violation of applicable laws, this product is not for use with a video image that is visible to the driver.**
- In some countries the viewing of video image on a display inside a vehicle even by persons other than the driver may be illegal. Where such regulations apply, they must be obeyed.

If you attempt to watch video image while driving, the warning **"Viewing of front seat video source while driving is strictly prohibited."** will appear on the screen. To watch

video image on this display, stop the vehicle in a safe place and apply the parking brake. Please keep the brake pedal pushed down before releasing the parking brake.

When using a display connected to V OUT

The video output terminal (**V OUT**) is for connection of a display to enable passengers in the rear seats to watch video images.

⚠ WARNING

NEVER install the rear display in a location that enables the driver to watch video images while driving.

To avoid battery exhaustion

Be sure to run the vehicle engine while using this product. Using this product without running the engine can drain the battery.

⚠ WARNING

Do not install this product in a vehicle that does not have an ACC wire or circuitry available.

Rear view camera

With an optional rear view camera, you are able to use this product as an aid to keep an eye on trailers, or backing into a tight parking spot.

⚠ WARNING

- SCREEN IMAGE MAY APPEAR REVERSED.
- USE INPUT ONLY FOR REVERSE OR MIRROR IMAGE REAR VIEW CAMERA. OTHER USE MAY RESULT IN INJURY OR DAMAGE.
- If this product displays the vehicle's backup camera image, close the LCD panel before putting the vehicle in reverse (AVH-2440NEX/AVH-2400NEX).

⚠ CAUTION

The rear view mode is to use this product as an aid to keep an eye on the trailers, or while backing up. Do not use this function for entertainment purposes.

Handling the USB connector

⚠ CAUTION

- To prevent data loss and damage to the storage device, never remove it from this product while data is being transferred.
- Pioneer cannot guarantee compatibility with all USB mass storage devices and assumes no responsibility for any loss of data on media players, iPhone, smartphone, or other devices while using this product.

Failure to operate

After-sales service for Pioneer products

Please contact the dealer or distributor from which you purchased the product for after-sales service (including warranty conditions) or any other information. In case the necessary information is not available, please contact the companies listed below.
Please do not ship your product to the companies at the addresses listed below for repair without making advance contact.
–USA&CANADA
Pioneer Electronics (USA) Inc.
CUSTOMER SUPPORT DIVISION
P.O. Box 1760 Long Beach, CA 90801-1760
800-421-1404
For warranty information, please see the Limited Warranty sheet included with your product.

Visit our website

Visit us at the following site:
http://www.pioneerelectronics.com
http://www.pioneerelectronics.ca

1. **Register your product.**
2. **Receive updates on the latest products and technologies.**
3. **Download owner's manuals, order product catalogs, research new products, and much more.**
4. **Receive notices of software upgrades and software updates.**

Protecting the LCD panel and screen

- Do not expose the LCD screen to direct sunlight when this product is not used. This may result in LCD screen malfunction due to the resulting high temperatures.
- When using a cellular phone, keep the antenna of the cellular phone away from the LCD screen to prevent disruption of the video in the form of spots, colored stripes, etc.
- To protect the LCD screen from damage, be sure to touch the touch panel keys only with your finger and do so gently.

Notes on internal memory

- The information will be erased by disconnecting the yellow lead from the battery (or removing the battery itself).
- Some of the settings and recorded contents will not be reset.

About this manual

This manual uses diagrams of actual screens to describe operations. However, the screens on some units may not match those shown in this manual depending on the model used.

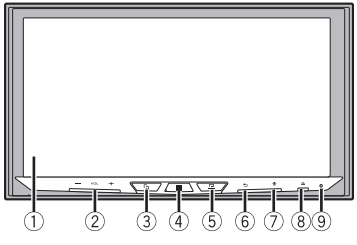
Meanings of symbols used in this manual

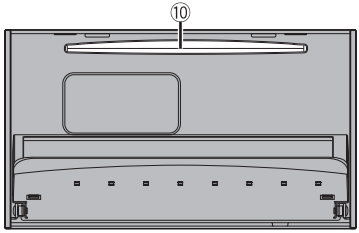
0000NEX	This indicates model names that are supported by the described operations.
	This indicates to touch the appropriate soft key on the touch screen.
	This indicates to touch and hold the appropriate soft key on the touch screen.

Parts and controls

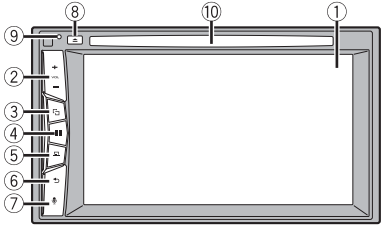
Main unit

2440NEX 2400NEX





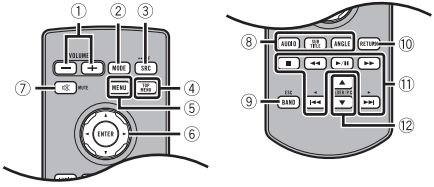
1440NEX 1400NEX



①	LCD screen	
②	VOL (+/-)	
③		Press to switch between the Application screen and the AV operation screen. Press and hold to switch to the camera view mode. **NOTE** To activate the camera view mode with this button, set [Back Camera Input] to [On] or [AV Input] to [Camera] (page 89).
④		Press to display the top menu screen. Press and hold to power off. To power back on, press any button.
⑤		Press to display the menu bar (page 19). Press and hold to mute or unmute.
⑥		Press to display the top menu screen or back to previous screen. Press and hold to turn off the display.
⑦		Press to activate the voice recognition mode such as Siri® when the iPhone is connected to the unit via Bluetooth or USB.
⑧		
⑨	RESET	Press to reset the microprocessor (page 15).
⑩	Disc-loading slot	Refer to Inserting and ejecting a disc (page 47).

Remote Control

2440NEX 1440NEX



①	Volume (+/-)	
②	MODE	Press to switch between the Application screen and the AV operation screen. Press and hold to switch to the camera view mode. **NOTE** To activate the camera view mode with this button, set [Back Camera Input] to [On] or [AV Input] to [Camera] (page 89).
③	SRC	Press to cycle through all the available sources. Press and hold to turn the source off.
④	TOP MENU	Press to return to the top menu during DVD playback.

⑤	MENU	Displays the DVD menu during DVD playback.
⑥	Thumb pad	Use to select a menu on the DVD menu.
⑦	MUTE	
⑧	AUDIO SUBTITLE ANGLE	Press to change the audio language, subtitle language or viewing angle during DVD playback.
⑨	BAND/ESC	Press to select the tuner band when tuner is selected as a source. Press to switch between media file types when playing the following types of data: • Disc • USB
⑩	RETURN	Press to return to the specified point and start playback from there.
⑪	▶/❚❚	Press to pause or resume playback.
	◀◀ or ▶▶	For audio: Press and hold to perform fast reverse or fast forward. For video: Press to perform fast reverse or fast forward.
	⏮ or ⏭	Press to return to the previous track (chapter) or go to the next track (chapter). Press to answer or end a call.
	■	Press to stop playback. If you resume playback, playback will start from the point where you stopped. Press the button again to stop playback completely.
⑫	FOLDER/P.CH	Press to select the next or previous title or folder. Press to recall radio station frequencies assigned to preset channel keys. Press to answer or end a call.

2400NEX 1400NEX

The remote control CD-R33 is sold separately.

Basic operation

Notes on using the LCD panel

2440NEX 2400NEX

⚠ WARNING

- Keep hands and fingers clear of this product when opening, closing, or adjusting the LCD panel. Be especially cautious of children's hands and fingers.
- Do not use with the LCD panel left open. It may result in injury in the event of an accident.
- Close the LCD panel before putting the vehicle in motion. Driving with the LCD panel open may damage the unit, and any backup camera image shown through the LCD panel will not be visible.

⚠ CAUTION

- Do not open or close the LCD panel forcefully. It may cause a malfunction.
- Do not operate this product until the LCD panel has completely opened or closed. If this product is operated while the LCD panel is opening or closing, the LCD panel may stop at that angle for safety.
- Do not place glass or can on the open LCD panel.

Adjusting the LCD panel angle

2440NEX 2400NEX

1 **Press ⏏.**

2 **Touch [+] or [−] to adjust the angle of the LCD panel.**

3 **Touch [X].**

Returns to the previous screen.

Resetting the microprocessor

⚠ CAUTION

- Pressing the RESET button resets settings and recorded contents to the factory settings.
  – Do not perform this operation when a device is connected to this product.
  – Some of the settings and recorded contents will not be reset.
- The microprocessor must be reset under the following conditions:
  – Prior to using this product for the first time after installation.
  – If this product fails to operate properly.
  – If there appears to be problems with the operation of the system.

1 **Turn the ignition switch OFF.**

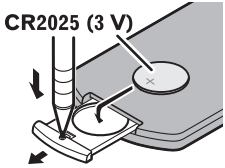
2 **Press RESET with a pen tip or other pointed tools.**
Settings and recorded contents are reset to the factory settings.

Preparing the remote control

2440NEX 1440NEX

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

- Do not ingest the battery, Chemical Burn Hazard.
  (The remote control supplied with) This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
  Keep new and used batteries away from children.
  If the battery compartment does not close securely, stop using the product and keep it away from children.
  If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
- Batteries (battery pack or batteries installed) must not be exposed to excessive heat such as sunshine, fire or the like.

⚠ CAUTION

- Remove the battery if the remote control is not used for a month or longer.
- There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not handle the battery with metallic tools.
- Do not store the battery with metallic objects.
- If the battery leaks, wipe the remote control completely clean and install a new battery.
- When disposing of used batteries, please comply with governmental regulations or environmental public institutions' rules that apply in your country/area.
- "Perchlorate Material – special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate. (Applicable to California, U.S.A.)"

Using the remote control

Point the remote control in the direction of the front panel to operate.

NOTE

The remote control may not function properly in direct sunlight.

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 gas pedal.

Starting up the unit

1 **Start the engine to boot up the system.**
The [Select Program Language] screen appears.

NOTE

From the second time on, the screen shown will differ depending on the previous conditions.

2 **Touch the language.**

3 **Touch [→].**
The [Speaker Mode Settings] screen appears.

4 **Touch the speaker modes.**
[**Standard Mode**]
4-speaker system with front and rear speakers, or a 6-speaker system with front and rear speakers and subwoofers.
[**Network Mode**]
3-way system with a high range speaker, middle range speaker and subwoofer (low range speaker) for reproduction of high, middle and low frequencies (bands).

⚠ WARNING

Do not use the unit in standard mode when a speaker system for 3-way network mode is connected to the unit. This may cause damage to the speakers.

5 **Touch [OK].**
Initial Legal Disclaimer screen appears.

6 **Touch [OK].**
The top menu screen appears.

NOTE

Once the speaker mode is set, the setting cannot be changed unless this product is restored to the default settings. Restore the default settings to change the speaker mode setting (page 108).

Switching the speaker mode

To change the speaker mode, you need to restore this product to the default settings.

1 **Restore the default setting (page 108).**

Using the touch panel

You can operate this product by touching the keys on the screen directly with your fingers.

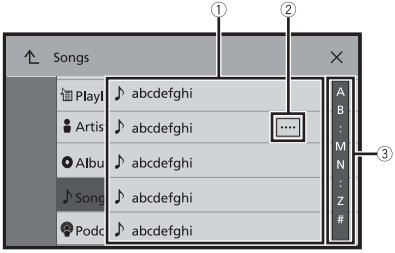
NOTE

To protect the LCD screen from damage, be sure to touch the screen only with your finger gently.

Common touch panel keys

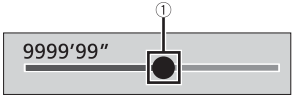
: Returns to the previous screen.
: Close the screen.

Operating list screens



①	**Touching an item on the list allows you to narrow down the options and proceed to the next operation.**
②	**Appears when all characters are not displayed on the display area.** If you touch the key, the rests are scrolled for display. **NOTE** This function is available only when you stop your vehicle in a safe place and apply the parking brake.
③	**Appears when items cannot be displayed on a single page.** Drag the side bar, the initial search bar or the list to view any hidden items.

Operating the time bar



①	**You can change the playback point by dragging the key.** The playback time corresponding to the position of the key is displayed while dragging the key.

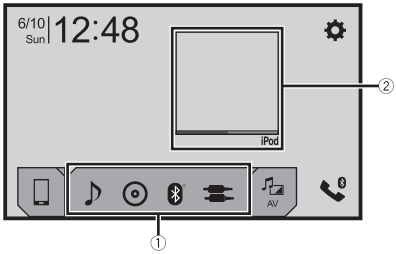
Operating the menu bar

1 Press [ ].
The menu bar pops up on the screen.

NOTE
The menu bar availability may vary depending on the activating source.

	Switches the dimmer duration by day or night. **NOTE** When AppRadio Mode + is on, AppRadio Mode + SideControlBar is displayed.
▶/II	**Switches between playback and pause.**
⏮ ⏭	**Skips files forward or backward.**
	Performs fast reverse or fast forward.
	Displays setting menu screen (page 88).
	Closes the menu bar.

Top menu screen



①	**Favorite source icons** **TIPS** • When you connect the external navigation system to this unit, the navigation mode key is displayed at the middle of the right side of the display. • If you select [Power OFF], you can turn off almost all functions. – An incoming call is received (only for hands-free phoning via Bluetooth). – A rear view camera image is input when the vehicle is in reverse. – A button on this unit is pressed. – The ignition switch is turned off (ACC OFF), then turned on (ACC ON).
②	**AV operation key** Displays the current source. **TIP** When the last source is displayed behind the key, you can switch the source by touching the key.
6/10 Sun 12:48	**Setting the time and date (page 107)**
	Settings (page 88) and Favorite menu (page 106)

	Connected device key Displays connected device. Switches the source or application with connected devices such as AppRadio Mode +, external navigation system, etc. **TIP** When a device with a compatible application is connected, the favorite application key appears. Once the key appears, you can adjust the range of the favorite application key area with the following steps. **1 Touch and hold [ ].** appears at the top right of the favorite application key. **2 Drag to the desired position.** To finish the adjusting, touch any place of the display except for the favorite application key. **NOTE** This function is available only when you stop your vehicle in a safe place and apply the parking brake.
	AV source (page 35)
	Hands-free phoning (page 24)

Bluetooth

Bluetooth connection

1 **Turn on the Bluetooth function on the device.**

2 **Press** [⊞].

3 **Touch** [⚙] **then** [ᛒ].
The Bluetooth screen appears.

4 **Touch [Connection].**

5 **Touch** [🔍].
The unit starts to search for available devices, then displays them in the device list.

6 **Touch the Bluetooth device name.**
After the device is successfully registered, a Bluetooth connection is established by the system. Once the connection is established, the device name is displayed on the list.

NOTES

- If five devices are already paired, [Memory Full] is displayed. Delete a paired device first (page 23).
- If your device supports SSP (Secure Simple Pairing), a six-digit number appears on the display of this product. Touch [Yes] to pair the device.
- If you try to connect an unconnected cellular phone while two cellular phones are already connected, the first one of the two connected cellular phones will be disconnected and the unconnected cellular phone will be connected instead.

TIPS

- The Bluetooth connection can also be made by detecting this product from the Bluetooth device. Before registration, make sure that [Visibility] in the [Bluetooth] menu is set to [On] (page 23). For details on Bluetooth device operations, refer to the operating instructions supplied with the Bluetooth device.
- Two cellular phones can be connected to this product at the same time (page 23).

Bluetooth settings

1 **Press** [⊞].

2 **Touch** [⚙] **then** [ᛒ].

⚠ CAUTION

Never turn this product off and disconnect the device while the Bluetooth setting operation is being processed.

Menu Item	Description
[Connection]	Connect, disconnect, or delete registered Bluetooth device manually. Touch [🗑] to delete registered device. To connect a registered Bluetooth device manually, touch the name of the device. To disconnect the device, touch the name of the connected device in the list. **NOTE** Connect the Bluetooth device manually in the following cases: • Two or more Bluetooth devices are registered, and you want to manually select the device to be used. • You want to reconnect a disconnected Bluetooth device. • Connection cannot be established automatically for some reason.
[Auto Connect] [On] [Off]	Select [On] to connect the last connected Bluetooth device automatically. **NOTE** If two Bluetooth devices were connected the last time, the two devices are connected to this product automatically in the order that they are registered in the device list.
[Visibility] [On] [Off]	Select [On] to make this product visible to the other device.
[PIN Code Input]	Change the PIN code for Bluetooth connection. The default PIN code is "0000". **1 Touch [0] to [9] to input the pin code (up to 8 digits).** **2 Touch [↵].**
[Device Information]	Displaying the device name and address of this product.
[Bluetooth Memory Clear]	Touch [Clear] then [OK] to clear the Bluetooth memory.

Switching the connected Bluetooth device

After registering and connecting the Bluetooth devices to this product, you can switch among the devices using the switch devices key in the phone function and some audio sources.

- You can register up to five Bluetooth devices on this product (page 22).
- You can connect one of the registered devices to this product. In cases where the registered device is equipped with a phone function, a total of two devices can be connected at the same time when using the phone function. If two of the five

registered devices are already connected, you can connect the remaining third device to use the audio function only from the switch devices key on the audio source screen.

- The icon for the cellular phone currently being used is displayed on the Phone menu screen. If you connect two cellular phones to this product at the same time, you can switch between the cellular phones using the switch devices key. The contents of the phone menu are memorized for each connected cellular phone (page 24).
- The switch devices key will appear for some audio sources. The audio source may automatically switch to another source depending on the selected device.

Hands-free phoning

To use this function you need to connect your cellular phone to this product via Bluetooth in advance (page 22).

⚠ CAUTION

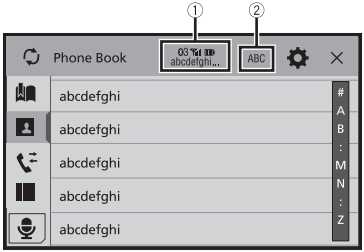
For your safety, avoid talking on the phone as much as possible while driving.

Making a phone call

1 Press [⊞].

2 Touch [📞].
The phone menu screen appears.

3 Touch one of the call icons on the phone menu screen.



①	**The following items are displayed.** • Name of the current cellular phone • List number of the current cellular phone • Reception status of the current cellular phone • Battery status of the current cellular phone **TIP** If you connect two cellular phones to this product at the same time, you can switch between the cellular phones using the switch devices key.
②	**Switches the search language to English or system language.** **NOTE** It may not appear depending on the system language setting.
	Synchronizes the contacts on this product's phone book with the contacts on your phone manually.
	Using preset dial list (page 25)
	Using phone book Select a contact from the phone book. Touch the desired name on the list then select the phone number. **TIPS** • The contacts on your phone will be automatically transferred to this product. • Update the phone book manually. **NOTES** • [Visibility] of the [Bluetooth] screen should be on (page 23). • If two cellular phones are automatically connected to this product with the Bluetooth device auto connect function, the phone book of the second phone is displayed.
	Using call history Make a phone call from the received call , dialed call , or missed call .
	Direct phone number input Enter the number keys to enter the phone number then touch to make a call.

▸To end the call

1 Touch .

Using the preset dial lists

▸Registering a phone number

You can easily store up to six phone numbers per device as presets.

1 Press .

2 Touch .

3 Touch or .
On the [Phone Book] screen, touch the desired name to display the contact's phone number.

4 Touch .

▸Dialing from the preset dial list

1 Touch .

2 **Touch the desired entry on the list to make a call.**
The dial screen appears and dialing starts.

▸Deleting a phone number

1 Press .

2 Touch .

3 Touch .

4 Touch .

5 Touch [Yes].

Receiving a phone call

1 **Touch to answer the call.**
Touch to end the call.

TIPS

- Touch while getting a call waiting, switch to the talking person.
- Touch while getting a call waiting to reject the call.

NOTE

When two phones are connected at the same time, if an incoming call is received on the second phone while you are talking on the first phone, the dial confirmation screen for the second phone will be displayed.

Voice recognition function (for iPhone)

By connecting your iPhone to this product, you can use the voice recognition function (Siri Eyes Free Mode) on this product.

NOTES

- When an iPhone is used, Siri Eyes Free Mode is available with this product.
- In this chapter, iPhone and iPod touch will be referred to as "iPhone".

1 Press [⊞].

2 Touch [📞].

3 Touch [🎙].

The voice recognition function launches and the voice control screen appears.

TIPS

- You can also launch the voice recognition function by pressing [🎙].
- If two cellular phones are automatically connected to this product with the Bluetooth device auto connect function, the voice recognition function (Siri Eyes Free Mode) will be set on the second phone.
- If you want to use the voice recognition function (Siri Eyes Free Mode) on another connected iPhone, touch [🎙] with numbered to the other iPhone. The iPhone that you switch to will be set as the current device.

Minimizing the dial confirmation screen

1 Touch [▬].

TIP

To display the dial confirmation screen, touch [📞] again.

NOTES

- The dial confirmation screen cannot be minimized on the AV operation screen.
- AV sources cannot be selected even if the dial confirmation screen is minimized while talking on the phone or receiving an incoming call.

Phone settings

1 Press [⊞].

2 Touch [⚙] then [ᛒ].

Menu Item	Description
[Auto Answer] [On] [Off]	Select [On] to answer an incoming call automatically.
[Ring Tone] [On] [Off]	Select [On] if the ring tone does not come out from the car speakers.
[Invert Name]	Select [Yes] to change the order of the first and last names in the phone book.

Setting the private mode

During a conversation, you can switch to private mode (talk directly on your cellular phone).

1 Touch [Private On] or [Private Off] to turn private mode on or off.

NOTES

- If two cellular phones are connected to this product and the first phone is set to private mode, you can receive incoming calls on the second phone while maintaining the call in progress on the first phone.
- When two cellular phones are connected to this product and private mode of the first phone is turned off, if an incoming call on the second phone is answered while a call is in progress on the first phone or while dialing or receiving a call on the first phone, the call, dialing, or receiving on the first phone is ended.

Adjusting the other party's listening volume

This product can be adjusted to the other party's listening volume.

1 Touch [Vol] to switch between the three volume levels.

Notes for hands-free phoning

▶General notes

- Connection to all cellular phones featuring Bluetooth wireless technology is not guaranteed.
- The line-of-sight distance between this product and your cellular phone must be 10 meters or less when sending and receiving voice and data via Bluetooth technology.
- With some cellular phones, the ring sound may not be output from the speakers.
- If private mode is selected on the cellular phone, hands-free phoning may be disabled.

▶Registration and connection

- Cellular phone operations vary depending on the type of cellular phone. Refer to the instruction manual that came with your cellular phone for detailed instructions.
- When phone book transfer does not work, disconnect your phone and then perform pairing again from your phone to this product.

▶Making and receiving calls

- You may hear a noise in the following situations:
  - – When you answer the phone using the button on the phone.
  - – When the person on the other end of the line hangs up the phone.
- If the person on the other end of the line cannot hear the conversation due to an echo, decrease the volume level for hands-free phoning.
- With some cellular phones, even after you press the accept button on the cellular phone when a call comes in, hands-free phoning may not be performed.
- The registered name will appear if the phone number is already registered in the phone book. When the same phone number is registered under different names, only the phone number will be displayed.

▸The received call and dialed number histories

- You cannot make a call to the entry of an unknown user (no phone number) in the received call history.
- If calls are made by operating your cellular phone, no history data will be recorded in this product.

▸Phone book transfers

- If there are more than 1 000 phone book entries on your cellular phone, not all entries may download completely.
- Depending on the phone, this product may not display the phone book correctly.
- If the phone book in the phone contains image data, the phone book may not be transferred correctly.
- Depending on the cellular phone, phone book transfer may not be available.

Bluetooth audio

Before using the Bluetooth audio player, register and connect the device to this product (page 22).

NOTES

- Depending on the Bluetooth audio player connected to this product, the available operations with this product may be limited to the following two levels:
  – A2DP (Advanced Audio Distribution Profile): Only playing back songs on your audio player is possible.
  – A2DP and AVRCP (Audio/Video Remote Control Profile): Playing back, pausing, selecting songs, etc., are possible.
- Depending on the Bluetooth device connected to this product, the available operations with this product may be limited or differ from the descriptions in this manual.
- While you are listening to songs on your Bluetooth device, refrain from operating the phone function as much as possible. If you try operating, the signal may cause noise for song playback.
- When you are talking on the Bluetooth device connected to this product via Bluetooth, it may pause playback.

1. **Press [⊞].**
2. **Touch [⚙] then [🔧].**
   The system setting screen appears.
3. **Touch [AV Source Settings].**
4. **Confirm that [Bluetooth Audio] is turned on.**
5. **Press [▮▮].**
6. **Touch [AV].**
   The AV source screen appears.
7. **Touch [Bluetooth Audio].**

The Bluetooth audio playback screen appears.

Basic operation

Bluetooth audio playback screen

①	**Track number indicator**
▶ ⏸	**Switches between playback and pause.**
⏮ ⏭	**Skips files forward or backward.** • By pressing [≡] then touch [⏮] or [⏭], you can also skip files forward or backward. • By pressing [≡] then touch and hold [⏮] or [⏭], you can also perform fast reverse or fast forward.
🔁	**Sets a repeat play range.**
🔀	**Plays files in random order.**
☰	**Selects a file or folder from the list to playback.** **NOTE** This function is available only when the AVRCP version of the Bluetooth device is 1.4 or higher.
📱	**Switches among the Bluetooth devices when the devices are connected to this product via Bluetooth (page 23).**

English

AppRadio Mode +

You can operate iPhone or smartphone applications with finger gestures such as tapping, dragging, scrolling, or flicking on the screen of this product.

NOTES

- The compatible finger gestures vary depending on the application for an iPhone or a smartphone.
- Even though an application is not compatible with AppRadio Mode +, depending on the application an image may be displayed. But you can not operate the application. To use AppRadio Mode +, install the AppRadio app on the iPhone or smartphone in advance. For details about the AppRadio app, visit the following site:
  http://www.pioneerelectronics.com/PUSA/Car
- Be sure to read Using app-based connected content (page 134) before you perform this operation.
- Copyright protected files such as DRM cannot be played.
- AppRadio Mode + may be referred to as AppRadio Mode.

⚠ WARNING

Certain uses of the iPhone or smartphone may not be legal while driving in your jurisdiction, so you must be aware of and obey any such restrictions. If in doubt as to a particular function, only perform it while the car is parked. No feature should be used unless it is safe to do so under the driving conditions you are experiencing.

Using AppRadio Mode +

Important

- Pioneer is not liable for any issues that may arise from incorrect or flawed app-based content.
- The content and functionality of the supported applications are the responsibility of the App providers.
- In AppRadio Mode +, functionality through the product is limited while driving, with available functions determined by the App providers.
- Availability of AppRadio Mode + functionality is determined by the App provider, and not determined by Pioneer.
- AppRadio Mode + allows access to applications other than those listed (subject to limitations while driving), but the extent to which content can be used is determined by the App providers.

Starting procedure

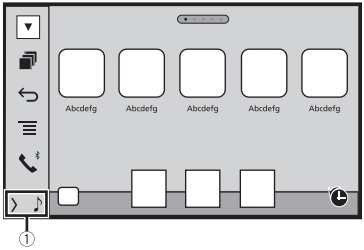
When connecting an iPhone or a smartphone to this product, the settings are automatically configured according to the device to be connected. For details of the available connection, refer to iPod®/iPhone® or smartphone connection for AV source (page 38).

TIPS

- Touch the desired application icon after the AppRadio app is launched.

- If you connect your device to this product while an AppRadio Mode + compatible application is already running, the application operation screen will appear on this product.
- The desired application is launched, and the application operation screen appears.
- Press ⊞ to go back to the top menu screen.

AppRadio Mode +



①	**Displays the current source.**
	Displays the launcher application screen.
	Displays the previous screen.
	Displays the menu screen.

- Press [⊟] then touch [⊏] to hide the AppRadio Mode + SideControlBar.
- Press [⊟] then touch [⊏] again to display the AppRadio Mode + SideControlBar again.
- [↩] and [≡] are not available depending on the type of device.

For iPhone users

1 Connect your iPhone.
Refer to the Installation Manual.

2 Press [⊞].

3 Touch [▯].

4 Touch [AppRadio Mode].

5 Touch desired icon in the tab.
The AppRadio app is launched.

For smartphone (Android) users

NOTES

- [USB MTP] is set to [Off] to use AppRadio Mode + (page 89).
- The video playback capability depends on the connected Android device.

1. **Unlock your smartphone and connect it to this product via USB.**
   Refer to the Installation Manual.
2. **Press** [⊞].
3. **Touch** [▭].
4. **Touch [AppRadio Mode].**
5. **Touch desired icon in the tab.**
   The AppRadio app is launched.

Using the keyboard

When you tap the text input area of an application for iPhone, a keyboard will be displayed on the screen. You can input desired text directly from this product.

NOTE

This function is only available in AppRadio Mode + on the iPhone.

⚠ CAUTION

For your safety, the keyboard functionality is only available when the vehicle is stopped and the parking brake is engaged.

1. **Start up the AppRadio Mode +.**
2. **Touch the text input area on the application operation screen.**
   A keyboard for entering text appears.

TIP

You can select the keyboard language (page 91).

Using the audio mix function

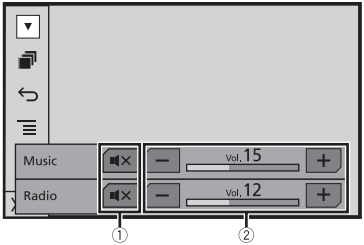
You can output the audio mixing AV source and an application for iPhone or smartphone when AppRadio Mode + is used.

NOTE

Depending on the application or AV source, this function may not be available.

1. **Start up the AppRadio Mode +.**
2. **Press VOL (+/-).**

The audio mix menu will be displayed on the screen.



①	**Touch to mute. Touch again to cancel mute.**
②	**Adjusts the audio volume.**

TIP

The AV operation screen and the Application screen can be switched by pressing ⊞.

AV source

Supported AV source

You can play or use the following sources with this product.

- Radio*1
- HD Radio Broadcasts (HD Radio™ tuner)*2
- CD
- ROM (compressed audio or video files on discs)
- DVD-Video
- USB

The following sources can be played back or used by connecting an auxiliary device.

- iPod
- Spotify®
- Pandora®
- Bluetooth® audio
- SiriusXM® Satellite Radio
- AV input (AV)
- AUX
- Car Sources (iDatalink)

*1 AVH-2400NEX/AVH-1400NEX

*2 AVH-2440NEX/AVH-1440NEX

Displaying the AV operation screen

1 **Press [⊞] then touch the AV operation key.**

The AV operation screen appears.

①	**Displays the source list.**

Selecting a source

Source on the AV source selection screen

1 **Press [⊞] then touch [AV].**

2 **Touch the source icon.**
When you select [Source OFF], the AV source is turned off.

Source on the source list

1 **Press [⊞] then touch AV operation key.**

2 **Touch [▼].**

3 **Touch the source key.**
When you select [Source OFF], the AV source is turned off.

Changing the display order of source

NOTE

This function is available only when you stop your vehicle in a safe place and apply the parking brake.

Changing the display order of source icons

1 **Press [⊞] then touch [AV].**

2 **Touch and hold the source icon and drag the icon to the desired position.**

Changing the display order of source keys

1 **Press [⊞] then touch AV operation key.**

2 **Touch [▼].**

3 **Touch [⇄].**

4 **Drag the source key to the desired position.**

Adjusting the range of favorite source icons area

NOTE

This function is available only when you stop your vehicle in a safe place and apply the parking brake.

1 **Press [⊞].**

2 **Touch and hold [AV].**

◪ appears at the top left of the favorite source icons.

3 **Drag ◪ to the desired position.**

To finish the adjusting, touch any place of the display except for the favorite source icons area.

English

iPod®/iPhone® or smartphone connection for AV source

When using an iPod/iPhone or a smartphone with this product, the settings are automatically configured according to the device to be connected. This section describes source compatibility for each device with the connection.

NOTES

- Operation methods may vary depending on the iPod/iPhone model or smartphone and its software version.
- Depending on the software version of iPod/iPhone or the version of smartphone OS, it may not be compatible with this unit.

iPod/iPhone with a Lightning connector

These are the methods to connect an iPod/iPhone with a Lightning connector to this product. The available sources vary depending on the connection method.

- Connecting via Bluetooth (page 39)
- Connecting via CD-IU52* (page 39)

* Sold separately

Compatible iPod/iPhone models

- iPhone 7
- iPhone 7 Plus
- iPhone SE
- iPhone 6s
- iPhone 6s Plus
- iPhone 6
- iPhone 6 Plus
- iPhone 5s
- iPhone 5c
- iPhone 5
- iPod touch® (6th generation)
- iPod touch (5th generation)
- iPod nano® (7th generation)

Depending on the iPod models, it may not be compatible with some AV sources. For details about iPod/iPhone compatibility with this product, refer to the information on our website.

TIP

You can connect and control an iPod/iPhone compatible with this product by using separately sold connector cables.

Connecting via Bluetooth

The following sources are available when an iPod/iPhone is connected to the unit via Bluetooth.

- iPod
- Pandora
- Spotify
- Bluetooth audio

1 **Connect an iPod/iPhone with this product via Bluetooth (page 22).**

2 **Press** [▮▮] **then touch** [AV].

3 **Touch compatible desired source.**

Connecting via CD-IU52

The following sources are available when an iPod/iPhone with a Lightning connector is connected to the unit via CD-IU52 (sold separately).

- iPod
- Pandora
- Spotify

1 **Connect an iPod/iPhone to USB port of this product by CD-IU52.**

2 **Press** [⊞] **then touch** [AV].

3 **Touch compatible desired source.**

- AppRadio Mode +

1 **Connect an iPod/iPhone to USB port of this product by CD-IU52.**

2 **Press** [⊞] **then touch** [▯].

3 **Touch [AppRadio Mode].**

4 **Touch desired icon in the tab.**

iPhone with a 30-pin connector

These are the methods to connect an iPhone with a 30-pin connector to this product. The available sources vary depending on the connection method.

- Connecting via Bluetooth (page 40)

- Connecting via CD-IU51* (page 40)

* Sold separately

Compatible iPhone model

- iPhone 4s

For details about iPhone compatibility with this product, refer to the information on our website.

TIP

You can connect and control an iPhone compatible with this product by using separately sold connector cables.

Connecting via Bluetooth

The following sources are available when an iPhone is connected to the unit via Bluetooth.

- iPod
- Pandora
- Spotify
- Bluetooth audio

1 Connect an iPhone with this product via Bluetooth (page 22).

2 Press [⊞] then touch [AV].

3 Touch compatible desired source.

Connecting via CD-IU51

The following sources are available when an iPhone with a 30-pin connector is connected to the unit via CD-IU51 (sold separately).

- iPod
- Pandora
- Spotify

1 Connect an iPhone to USB port of this product by CD-IU51.

2 Press [⊞] then touch [AV].

3 Touch compatible desired source.

Smartphone (Android™ device)

These are the methods to connect a smartphone to this product. The available sources vary depending on the connection method.

- Connecting via Bluetooth (page 41)
- Connecting via CD-MU200* (page 41)

* Sold separately

Compatible smartphones

Compatibility with all smartphones is not guaranteed. For details about smartphone compatibility with this product, refer to the information on our website.

Connecting via Bluetooth

The following sources are available when a smartphone is connected to the unit via Bluetooth.

- Pandora
- Spotify
- Bluetooth audio

1 **Connect a smartphone with this product via Bluetooth (page 22).**

2 **Press [ ] then touch [AV].**

3 **Touch compatible desired source.**

Connecting via CD-MU200

The following sources are available when a smartphone is connected to the unit via CD-MU200.

- AppRadio Mode +

1 **Connect a smartphone to USB port of this product by CD-MU200.**

2 **Press [ ] then touch [ ].**

3 **Touch [AppRadio Mode].**

4 **Touch desired icon in the tab.**

HD Radio™ Technology/ Radio

HD Radio Technology

2440NEX 1440NEX

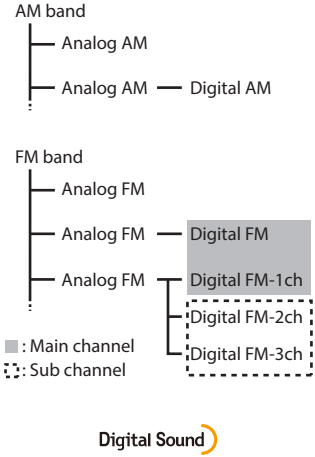
Radio

2400NEX 1400NEX

About HD Radio stations

HD Radio stations offer high quality audio and data services. HD Radio stations are brought to you by your local FM or AM stations.
HD Radio stations feature the following:

- High quality audio
- FM multicasting
- Data service



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.

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.

Artist Experience

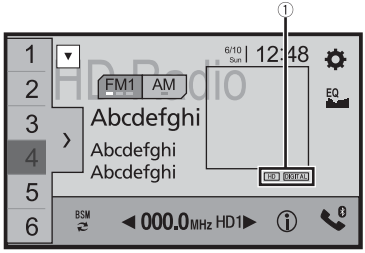
Visual information related to content being played on your HD Radio receiver, such as Album Art, historical photographs, still art from live broadcasts, among other related content.

Starting procedure

1 **Press [▮▮] then touch [AV].**

2 **Touch [HD Radio] or [Radio].**
The HD Radio or Radio screen appears.

HD Radio, Radio screen



①*	**HD Radio indicator and Signal type indicator**
1 … 6	**Recalls the preset channel stored to a key from memory.**
	Stores the current broadcast frequency to a key.
›	**Displays the preset channel list.** Select an item on the list ([1] to [6]) to switch to the preset channel.
FM1 AM	**Selects the FM1, FM2, FM3 or AM band.**
BSM	**Performs BSM (best stations memory) function (page 45).**
◄ ►	**Manual tuning**
	Seek tuning or non stop seek tuning Releasing the key in a few seconds skips to the nearest station from the current frequency. Keep holding the key for long seconds to perform, performs non stop seek tuning.
ⓘ*	**Switches the text display between the main channel and sub channels.**

* AVH-2440NEX/AVH-1440NEX

TIPS

- By pressing [ ] then touch [⏮] or [⏭], you can also switch the preset channels.
- By pressing [ ] then touch and hold [⏮] or [⏭] and releasing it, you can also perform seek tuning.

Storing the strongest broadcast frequencies (BSM)

The BSM (best stations memory) function automatically stores the six strongest broadcast frequencies under the preset channel keys [1] to [6].

NOTES

- Storing broadcast frequencies with BSM may replace those you have already saved.
- Previously stored broadcast frequencies may remain stored if the number of frequencies stored has not reached the limit.

1 Touch [BSM] to begin search.

While the message is displayed, the six strongest broadcast frequencies will be stored under the preset channel keys in the order of their signal strength.

To cancel the storage process

1 Touch [Cancel].

Radio settings

1 Press [⊞].

2 Touch [⚙] then [🔧].

The system setting screen appears.

3 Touch [AV Source Settings].

4 Touch [Radio settings].

The menu items vary according to the source.

Menu Item	Description
[Blending]* [On] [Off]	Switches to the analog broadcast of the same frequency level automatically when reception of a digital broadcast becomes weak. Select [Off] to receive only a digital signal.
[Seek]*	Select the method of seek tuning.
[Seek All]	Seeks stations from both analog and digital broadcasting.
[Seek HD]	Only seeks stations from digital broadcasting.

Menu Item	Description
[Local] **[Off]** **FM:** [Level1] [Level2] [Level3] [Level4] **AM:** [Level1] [Level2]	Local seek tuning allows you to only tune into radio stations with sufficiently strong signals. **NOTE** [Level4] for FM and [Level2] for AM are available only with the stations with the strongest signals.

* AVH-2440NEX/AVH-1440NEX

Disc

Inserting and ejecting a disc

You can play a normal music CD, Video-CD, or DVD-Video using the built-in drive of this product.

⚠ WARNING

2440NEX 2400NEX

Keep hands and fingers clear of this product when opening, closing, or adjusting the LCD panel. Be especially cautious of children's hands and fingers.

⚠ CAUTION

Do not insert anything other than a disc into the disc-loading slot.

Insert the disc

2440NEX 2400NEX

1 **Press ⏏.**

2 **Touch ⊙▲ to open the LCD panel.**

3 **Insert a disc into the disc-loading slot.**
The source changes and then playback will start.

1440NEX 1400NEX

1 **Insert a disc into the disc-loading slot.**
The source changes and then playback will start.

NOTE

If the disc is already set, select [Disc] as the playing source.

Ejecting a disc

2440NEX 2400NEX

1 **Press ⏏.**

2 **Touch ⊙▲ to open the LCD panel.**

3 **Remove the disc and press ⏏.**

1440NEX 1400NEX

1 Press [⏏].

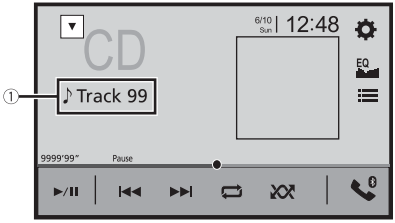
Basic operation

TIPS

- By pressing [⏏] then touch [⏮] or [⏭], you can also skip files/chapters forward or backward.
- By pressing [⏏] then touch and hold [⏮] or [⏭], you can also perform fast reverse or fast forward.
- If a Video-CD with PBC (playback control) On is being played, [PBC On] appears.
- You can set the screen size for the video image (page 107).

Audio source

Audio source screen



①	**Track number indicator**
[►/II]	**Switches between playback and pause.**
[⏮] [⏭]	**Skips files forward or backward.**
[🔁] [🔁♪]	**Sets a repeat play for the current disc/the current track.**
[🔀] [🔀]	**Plays or does not play tracks in random order.**
[☰]	**Selects a track from the list.** Touch a track on the list to play back.

⚠ CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, stop in a safe place and apply the parking brake.

Video source screen 1

①	**Hides the touch panel keys.** To display the keys again, touch anywhere on the screen.
◀◀ ▶▶	**Performs fast reverse or fast forward.** Touch again to change the playback speed.
■	**Stops playback.**
II▶	**Performs frame-by-frame playback.**
	Performs slow-motion playback. Each time you touch II▶, it changes the speed in four steps in the following order: 1/16 -> 1/8 -> 1/4 -> 1/2
MENU TOP MENU	**Displays the DVD menu.** **NOTE** This function may not work properly with some DVD disc content. In that case, use touch panel keys to operate the DVD menu.
	Sets a repeat play for all files/the current chapter/the current title.
01 OFF	**Switches the audio/subtitle language.**

»	**Displays the hidden function bar.** **TIP** You can also display the hidden function bar by flicking the bar from the right to the left.
	Searches for the part you want to play. Touch [Title], [Chapter], [10Key], or [Track] then input the desired number from [0] to [9]. To start playback from the number you registered, touch ↵. **TIPS** • To cancel an input number, touch [C]. • For DVD-Videos, you can select [Title], [Chapter] or [10Key]. • For Video-CDs, you can select [Track] or [10Key].*
⏮ ⏭	**Skips files/chapters forward or backward.**

* PBC (playback control) only

Video source screen 2

«	**Displays the hidden function bar.** **TIP** You can also display the hidden function bar by flicking the bar from the left to the right.
L+R	**Selects the audio output from [L+R], [Left], [Right], [Mix].** This function is available for Video-CDs and DVDs recorded with LPCM audio.
01	**Changes the viewing angle (Multi-angle).** This function is available for DVDs featuring multi-angle recordings.

	Displays the DVD menu keypad. If items on the DVD menu appear, the touch panel keys may overlay them. If so, select an item using these touch panel keys. Touch [◀], [▶], [▲], or [▼] to select the menu item then touch [↵]. **NOTE** The way to display the menu differs depending on the disc. **TIP** If you touch [↵], you can operate the DVD menu directly.
	Resumes playback (Bookmark). This function is available for DVD-Video. You can memorize one point as a Bookmark for a disc (up to five discs). To clear the bookmark on the disc, touch and hold this key.
	Returns and begins playback from the specified point. This function is available for DVD-Video and Video-CDs featuring PBC (playback control).

Compressed files

Inserting and ejecting media

You can play compressed audio, compressed video, or still image files stored in a disc or an external storage device.

⚠ WARNING

2440NEX 2400NEX

Keep hands and fingers clear of this product when opening, closing, or adjusting the LCD panel. Be especially cautious of children's hands and fingers.

⚠ CAUTION

Do not insert anything other than a disc into the disc-loading slot.

Insert a disc

2440NEX 2400NEX

1 **Press ⏏.**

2 **Touch ⊙⏏ to open the LCD panel.**

3 **Insert a disc into the disc-loading slot.**
The source changes and then playback will start.

1440NEX 1400NEX

1 **Insert a disc into the disc-loading slot.**
The source changes and then playback will start.

NOTE

If the disc is already set, select [Disc] as the playing source.

Ejecting a disc

2440NEX 2400NEX

1 **Press ⏏.**

2 **Touch ⊙⏏ to open the LCD panel.**

3 **Remove the disc and press ⏏.**

1440NEX 1400NEX

1 Press ⏏.

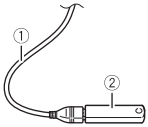
Plugging a USB storage device

1 Pull out the plug from the USB port of the USB cable.

2 Plug a USB storage device into the USB cable.

NOTES

- This product may not achieve optimum performance with some USB storage devices.
- Connection via a USB hub is not possible.
- A USB cable is required for connection.



①	**USB cable**
②	**USB storage device**

Unplugging a USB storage device

1 Pull out the USB storage device from the USB cable.

NOTES

- Check that no data is being accessed before pulling out the USB storage device.
- Turn off (ACC OFF) the ignition switch before unplugging the USB storage device.

Starting procedure

For Disc

1 Insert the disc (page 52).

TIP

If the disc is already set, select [Disc] as the playing source.

For USB

1 Press [▮▮] then touch [AV].

2 **Plug the USB storage device into the USB cable (page 53).**

3 **Touch [USB].**
Playback is performed in order of folder numbers. Folders are skipped if they contain no playable files.

Basic operation

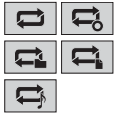
TIPS

- By pressing [⏏] then touch [⏮] or [⏭], you can also skip files/chapters forward or backward.
- By pressing [⏏] then touch and hold [⏮] or [⏭] on the audio or video file, you can also perform fast reverse or fast forward.
- You can set the screen size for the video and image files (page 107).

Audio source

Audio source screen 1 (Example: USB)

①	**Displays the link search screen.** Touch the song to play back followed by touching the song information, after switching to Music Browse mode (page 56). **TIP** If you touch the artwork, the list of songs in the album is displayed. **NOTE** This function is available for the USB storage device only.
▶/II	**Switches between playback and pause.**

	Skips files forward or backward.
	**Sets a repeat play range for all files/the current folder/the current file.**
	Plays files or does not play in random order.
	Displays the hidden function bar. **TIP** You can also display the hidden function bar by flicking the bar from the right to the left.
	Switches the following media file types. **[Music]:** Compressed audio files **[Video]:** Compressed video files **[CD-DA]:** Audio data (CD-DA) **[Photo]:** Image files
	Selects a file from the list. Touch a file on the list to playback. **TIP** Touching a folder on the list shows its contents. You can play a file on the list by touching it. **NOTE** When you play compressed audio files stored in a USB storage device, you can search for a file using Music Browse (page 56).
MIXTRAX EZ	**Displays the MIXTRAX screen (page 82).**

Audio source screen 2 (Example: USB)

	Displays the hidden function bar. **TIP** You can also display the hidden function bar by flicking the bar from the left to the right.
	Selects the previous folder or the next folder.
	Constructs the database for using the Music Browse mode (page 56).
	Switches the current music information display.

▸Selecting a file using Music Browse mode

You can select files to play back using the category list if the files contain tag information.

NOTES

- This function is available for the USB storage device only.
- Music Browse mode cannot be held once the power is turned off.

1. **Touch to create a database.**
   Music Browse mode will be available after the database has been created.
2. **Touch .**
3. **Touch the desired category to display the file list.**
4. **Touch the item.**
   Refine the item until the desired song title or file name is displayed on the list.
5. **Touch the desired song title or file name to play back.**
   If the selection made with Music Browse has been canceled, you can switch to Music Browse mode again by touching the [Tag] tab on the file/folder list screen and touching the desired track.

TIP

Once the database is created in the USB storage, there is no need to create the database again as long as the same contents are saved. To enter the Music Browse mode directly, touch and then touch [Tag] before selecting the song.

Video source

⚠ CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, stop in a safe place and apply the parking brake.

Video source screen (Example: Disc)

①	**Hides the touch panel keys.** To display the keys again, touch anywhere on the screen.
▶/II	**Switches between playback and pause.**
◀◀ ▶▶	**Performs fast reverse or fast forward.** Touch again to change the playback speed.
■	**Stops playback.**
II▶	**Performs frame-by-frame playback.** **Performs slow-motion playback.**
	Sets a repeat play range for all files/the current folder/the current file.
01 OFF	**Switches the audio/subtitle language.**
	Switches the following media file types. **[Music]:** Compressed audio files **[Video]:** Compressed video files **[CD-DA]:** Audio data (CD-DA) **[Photo]:** Image files

	Selects a file from the list. Touch a file on the list to playback. **TIP** Touching a folder on the list shows its contents. You can play a file on the list by touching it.
	Skips files forward or backward.

Still image source

TIPS

- Image files are not displayed in the rear display.
- By pressing [⏏] then touch and hold [⏮] or [⏭] on the still image file, you can search through 10 image files at a time. If the file currently being played is the first or last file in the folder, the search is not performed.

Still image screen

①	**Hides the touch panel keys.** To display the keys again, touch anywhere on the screen.
	Switches between playback and pause.
	Skips files forward or backward.
	Selects the previous folder or the next folder.

	Saves the current images as the wallpaper. Touch the following items then touch [Yes] to overwrite the image. [**As AVScreen**]: Saves the image as the wallpaper for the AV screen. [**As HomeScreen**]: Saves the image as the wallpaper for the top menu screen. [**As Both**]: Saves the image as the wallpaper for both the AV screen and top menu screen. **NOTE** If you save the new image, the current wallpaper is overwritten except for the preset image.
	Rotates the displayed picture 90° clockwise.
	Sets a repeat play range for all files/the current folder.
	Plays all files in the current repeat play range or does not play them in random order.
	Switches the following media file types. **[Music]:** Compressed audio files **[Video]:** Compressed video files **[CD-DA]:** Audio data (CD-DA) **[Photo]:** Image files
	Selects a file from the list. Touch a file on the list to playback. **TIP** Touching a folder on the list shows its contents. You can play a file on the list by touching it.

iPod

Connecting your iPod

When connecting an iPod to this product, the settings are automatically configured according to the device to be connected. For details of the available connection, refer to iPod®/iPhone® or smartphone connection for AV source (page 38).

NOTES

- Depending on the generation or version of the iPod, some functions may not be available.
- Do not delete the Apple Music® app from your iPod, since some functions may not be available.

1 **Connect your iPod.**

2 **Press [⊞] then touch [AV].**

3 **Touch [iPod].**

Basic operation

TIPS

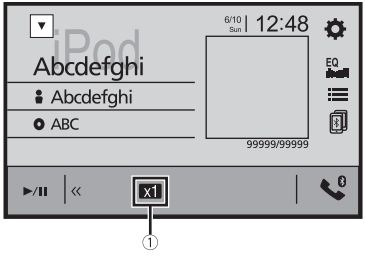
- By pressing [⏏] then touch [⏮] or [⏭], you can also skip files forward or backward.
- By pressing [⏏] then touch and hold [⏮] or [⏭], you can also perform fast reverse or fast forward.

Audio source

Audio source screen 1

①	**Displays the link search screen.** Select a song from the list related to the song currently playing. **TIP** If you touch the artwork, the list of songs in the album is displayed. **NOTE** This function is not available while playing Apple Music Radio.
	Switches between playback and pause.
	Skips files forward or backward.
	Sets a repeat play range for all in the selected list/the current song.
	Plays songs within the selected list/album randomly.
	Displays the hidden function bar.
	Switches among connected devices.
	Selects a song from the list. Touch the category then the title of the list to playback of the selected list. **TIPS** • If you use English as the system language, the alphabet search function is available. Touch the initial search bar to use this function. • You can play playlists created with the MusicSphere application. The application is available on our website. • When you touch Apple Music Radio station in the list screen, Apple Music Radio screen appears (page 62). **NOTES** • Depending on the generation or version of the iPod, some functions may not be available. • Only 16 000 songs in the iPod are available in the list if the iPod has more than 16 000 songs. Available songs depend on the iPod.

Audio source screen 2



①	**Changes the audiobook speed.** Normal—Fast—Slow
«	**Displays the hidden function bar.**

Apple Music® Radio source

Important

Apple Music Radio may not be available in your country or region. For details about Apple Music Radio, visit the following site: http://www.apple.com/music/

NOTE

This function is only available when using the iPod function with an iPhone 7, iPhone 7 Plus, iPhone SE, iPhone 6s, iPhone 6s Plus, iPhone 6, iPhone 6 Plus, iPhone 5s, iPhone 5c, iPhone 5 or iPod touch (5th and 6th generation).

Apple Music Radio screen

►/II	**Switches between playback and pause.**

★	**Displays the pop-up menu for Apple Music Radio.** • Touch [Play More Like This] to play back songs similar to the current song. • Touch [Play Less Like This] to set it not to play back the current song again. • Touch [Add to iTunes Wish List] to add the current song to the iTunes® wish list. **NOTE** This function may not be used depending on your Apple Music account status.
▶▶|	**Skips tracks forward.**

Pandora®

Pandora internet radio is a music service not affiliated with Pioneer. More information is available at http://www.pandora.com.
The Pandora mobile application is available for iPhone and smartphones. Please visit www.pandora.com/everywhere/mobile for the latest compatibility information.

⚠ WARNING

Certain uses of the iPhone or smartphone may not be legal while driving in your jurisdiction, so you must be aware of and obey any such restrictions.
If in doubt as to a particular function, only perform it while the car is parked.
No feature should be used unless it is safe to do so under the driving conditions you are experiencing.

Important

- Create a free or a paid account online. You can create the account in the Pandora application from your iPhone or smartphone, or from the website (http://www.pandora.com/account/register).
- To use the Pandora service, you need to connect to the Internet via 3G, EDGE, LTE (4G), or Wi-Fi network. If the data plan for your iPhone or smartphone does not provide for unlimited data usage, additional charges from your carrier may apply.

Limitations:

- Depending on the availability of the Internet, you may not be able to receive the Pandora service.
- The Pandora service is subject to change without notice. The service could be affected by any of the following: firmware version of the iPhone or smartphone, firmware version of the Pandora application, changes to the Pandora music service.
- Certain functions of the Pandora service are not available when accessing the service through Pioneer car audio/video products. They include, but are not limited to the following: sending information about current stations, buying tracks from iTunes App Store® or Google Play, viewing additional text information, logging in to Pandora, adjusting Cell Network Audio Quality.

NOTE

In this chapter, iPhone and iPod touch will be referred to as "iPhone".

Listening to Pandora

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

1 **Unlock the mobile device and connect it to this product.**

- iPhone via USB or Bluetooth
- Smartphone via Bluetooth

2 **Press** [⊞] **then touch** [AV].

3 **Touch [Pandora].**

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

- For details on Bluetooth connection, see page 22.
- For details on USB connection, refer to the Installation Manual.

Basic operation

Playback screen

1 … 6	**Recalls the preset station stored to a key from the memory.**
	Stores the current station to a key.
›	**Displays the preset station list.** Select an item on the list ([1] to [6]) to switch to the preset station.
▶/II	**Switches between playback and pause.**
▶▶|	**Skips tracks forward.** **TIP** By pressing [⌂] then touch [▶▶], you can skip songs forward.
*	**Gives a Thumbs Up to the playing track.**
*	**Gives a Thumbs Down to the playing track and skips to the next track.**
	Creates a new station. Touch [Track] or [Artist] to create a new station.

	Adds information for the track currently playing to bookmarks.
	Switches among connected devices.
	Selects a Pandora station from the list. • : Switches to the station list. • : Switches to the genre list. • : Plays only one track based on particular musical characteristics from several shuffled stations. • : Deletes the station. • **A-Z**: Sorts the items in the list alphabetically. • **Date**: Sorts the items in the list in the order of the dates. **TIP** Shared stations are indicated by .

* and are not available when using a shared station.

Spotify®

To enjoy Spotify as you drive, first download the Spotify app to your iPhone or smartphone. You can download it from 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. If you have Spotify already, please update the app so you have the latest version then connect your phone to your car. Now you can take your music on the road.

⚠ WARNING

Certain uses of the iPhone or smartphone may not be legal while driving in your jurisdiction, so you must be aware of and obey any such restrictions. If in doubt as to a particular function, only perform it while the car is parked. No feature should be used unless it is safe to do so under the driving conditions you are experiencing.

Important

- Confirm the requirements to access Spotify using Pioneer car audio/video (page 38).
- To use Spotify, you need to connect to the Internet via 3G, EDGE, LTE (4G), or a Wi-Fi network. If the data plan for your iPhone or smartphone does not provide for unlimited data usage, additional charges from your carrier may apply.
- For information on the countries and regions where Spotify can be used, take a look at https://www.spotify.com/us/select-your-country/.

Limitations:

- Depending on the availability of the Internet, you may not be able to receive the Spotify service.
- The Spotify service is subject to change without notice. The service could be affected by any of the following: firmware version of the iPhone or smartphone, firmware version of the Spotify application, changes to the Spotify music service.
- Certain functions of the Spotify service are not available when accessing the service through Pioneer car audio/video products.
- Spotify is a music service not affiliated with Pioneer. More information is available at https://support.spotify.com/.
- The Spotify application is available for most iPhone and smartphone, please visit https://support.spotify.com/ for the latest compatibility information.

Listening to Spotify

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

1 Unlock the mobile device and connect it to this product.

- iPhone via USB or Bluetooth
- Smartphone via Bluetooth

2 Press [⊞].

3 Touch [⚙] then [🔧].

4 Touch [AV Source Settings].

5 Confirm that [Spotify] is turned on.

6 Press [▮▮] then touch [AV].

7 Touch [Spotify].

NOTES

- For details on Bluetooth connection, see page 22.
- For details on USB connection for iPhone, refer to the Installation Manual.

Basic operation

Playback screen 1 (Track)

[►/II]	**Switches between playback and pause.**
[I◄◄] [►►I]	**Skips tracks forward or backward.** **TIP** By pressing [⊞] then touch [►►I], you can skip tracks forward.
[(•)]	**Switches to radio mode.**
[+]	**Saves or deletes the current song information to or from Your Music.**

	Displays the hidden function bar. **TIP** You can also display the hidden function bar by flicking the bar from the right to the left.
	Switches among connected devices.
	Selects a track or station from the list. **Your Music**: Selects a track or station from the list of saved song information. **Browse**: Selects a track from the category list. **Radio**: Selects a station from the station list. **Recently Played**: Selects a track from recently played.

Playback screen 2 (Track)

	Displays the hidden function bar. **TIP** You can also display the hidden function bar by flicking the bar from the left to the right.
	Sets a repeat play range.
	Plays tracks in random order.

Playback screen 1 (Radio mode)

►/II	**Switches between playback and pause.**
I◄◄ ►►I	**Skips tracks forward or backward.** **TIP** By pressing [≡] then touch [►►I], you can skip songs forward.
((•))	**Starts new radio mode.**
+	**Saves or deletes the current song information to or from Your Music.**
»	**Displays the hidden function bar.** **TIP** You can also display the hidden function bar by flicking the bar from the right to the left.
	Switches among connected devices.
	Selects a track or station from the list. **Your Music**: Selects a track or station from the list of saved song information. **Browse**: Selects a track from the category list. **Radio**: Selects a station from the station list. **Recently Played**: Selects a track from recently played.

Playback screen 2 (Radio mode)

«	**Displays the hidden function bar.** **TIP** You can also display the hidden function bar by flicking the bar from the left to the right.
	Gives a Thumbs Up to the playing track.
	Gives a Thumbs Down to the playing track and skips to the next track.

SiriusXM® Satellite Radio

Only SiriusXM® brings you more of what you love to listen to, all in one place. Get over 140 channels, including commercial-free music plus the best sports, news, talk, comedy, and entertainment. Welcome to the world of satellite radio. A SiriusXM Connect Vehicle Tuner and Subscription are required. For more information, visit the website (www.siriusxm.com).
To take full advantage of all the SiriusXM capabilities, such as TuneMix™, SportsFlash™ and Traffic & Weather Now, please use the SXV300 tuner (sold separately). Other tuners are compatible but may limit the features.

Subscribing to the SiriusXM Satellite Radio service

1 **Press [⊞] then touch [AV].**

2 **Touch [SiriusXM].**
You should be able to tune in to Channel 1. If you cannot get Channel 1, ensure that your SiriusXM Connect Vehicle Tuner is installed correctly.

3 **Switch to Channel 0 and check the Radio ID.**
The SiriusXM Radio ID can be found by tuning in to Channel 0.
You will need this number to activate your subscription.

NOTE
The SiriusXM Radio ID does not include the letters I, O, S, or F.

4 **Activate the service either online or by phone.**

TIP
In the USA, you can activate online or by calling SiriusXM Listener Care:
- Visit the website
  www.siriusxm.com/activatenow
- Call SiriusXM Listener Care at
  1-866-635-2349

For Canadian subscriptions, please contact:
- Visit the website
  www.xmradio.ca
  and click on "ACTIVATE RADIO" at the top right corner of the page, or call (1-877-438-9677).

NOTES
- The SiriusXM satellites will send an activation message to your tuner. When the tuner has received the message, [Subscription Updated] is displayed.
- The activation process usually takes 10 to 15 minutes, but it may take up to an hour. Do not turn off this product while the activation message is displayed.

Listening to SiriusXM

1 **Press** [⊞] **then touch** [AV].

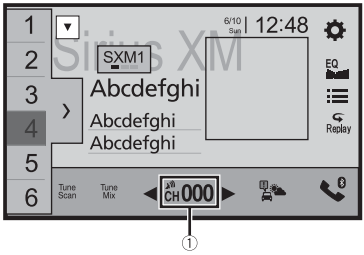
2 **Touch [SiriusXM].**

Basic operation

TIPS

- By pressing [⊡] then touch [⏮] or [⏭], you can move the preset channels up or down on the current channel screen, and skip files forward or backward on the play time indicator screen.
- By pressing [⊡] then touch and hold [⏮] or [⏭], you can move channels up or down on the current channel screen, and perform fast reverse or fast forward on the play time indicator screen.
- On the Featured Favorites Band, the current broadcast frequency cannot be stored to a key (page 76).
- If fewer than two music channels are stored as presets, you cannot use the TuneMix function.
- [RADIO ID] is displayed when Channel 0 is selected.

Current channel display (Live broadcast mode)



①	**Selects a channel directly.**
1 … 6	**Recalls the preset channel stored to a key from the memory.**
	Stores the current channel to a key.
›	**Displays the preset channels.** Select an item on the list ([1] to [6]) to switch to the preset channel.
SXM1	**Selects a band.** There are 3 bands. You can store 6 channels per band for a total of 18 presets.

Tune Scan	**Performs TuneScan™ (page 75).**
Tune Mix	**Switches TuneMix™ to on or off.** You can use TuneMix™ from each of the music channels stored as presets on the current band. **NOTES** • When fewer than two music channels are stored as presets, you cannot use TuneMix™. • Locked channels will not be used by TuneMix™ until the channels are unlocked by entering the parental control passcode.
◄ ►	**Performs channel number down/up.**
	Performs fast channel number down/up.
	Switches to the channel broadcasting the traffic and weather information for the selected city (Traffic & Weather Now™). Touch the desired city to access the latest Traffic & Weather report for your favorite market. To cancel Traffic & Weather Now™, touch [↩]. **TIPS** • Grayed out: Traffic and weather broadcast for your market is not yet available. • With green dot: Latest report available, but not listened to yet. • White: Latest report available to hear again. • To listen to the information again, touch [ ] on the current channel display. • If you have already selected the city, you can listen to the information only by touching [ ]. **NOTES** • To use this function, select the city in advance (page 78). • The selected city can be changed in the Sirius XM settings (page 78).
Replay	**Switches between live broadcast mode and Replay™ Mode.**

	Selects a channel from the list. Select the category name or the list of all channels then touch the desired channel. To switch the display list, touch [ⓘ]. **TIPS** • The displayed list switches in the following order. Channel Name—Artist Name—Song Title—Content Info • If you touch [4 Sec], you can scan each channel in the selected category. **NOTES** • The types of categories available depend on the types of channels available. • It may take time to display the channel list depending on the SiriusXM reception condition.

Replay™ Mode (Time bar display)

▶/II	**Switches between playback and pause.**
I◀◀ ▶▶I	**Performs content forward or backward.**
	Performs fast forward or rewind.
Live	**Switches between live broadcast mode and Replay™ mode.**

TuneScan™

When you activate the TuneScan™ feature, you will hear a few seconds of the songs which have not been listened to from each of the music channels stored as presets on the current band.

NOTES

- When fewer than two music channels are stored as presets, you cannot use TuneScan™.
- TuneScan™ may take a few minutes to become available after the product is turned on or the preset band is changed.

1 Touch [Tune Scan] to display the following display.

▶	**Continues playing the current scanning song or channel.**
⏮ ⏭	**Skips to the previous/next song during TuneScan™ or to the previous/next channel during category scan.**
✕	**Cancels scan play and returns to the previous channel.**

SportsFlash™

SportsFlash™ will notify you when a big play happens during a game with one of your favorite sports teams.
Choose to tune in and hear the play unfold like it was live. Continue listening to the game, or you can return to your previous channel.
For details, see [SportsFlash] (page 78) and [SportsFlash List] (page 78) in SiriusXM settings.

SmartFavorites

All preset channels will buffer the content to be used for Replay, TuneStart, TuneScan and TuneMix features.

Using Featured Favorites Band

Featured Favorites are groups of channels that are created by the SiriusXM Programming department allowing you to discover new channels. Featured Favorite channels are dynamic and can change often, allowing you to discover new channels.
For details, see [Featured Favorites] and [Featured Band Update Message] in SiriusXM settings (page 77).

How to access

When there is a Featured Favorite, access it with the band key.

1 **Touch the band key.**

SXM1—SXM2—SXM3—FF

When there are multiple Featured Favorites, access them from the category list. It is displayed at the bottom of the category list (page 75).

Parental lock

The Parental Control feature allows you to limit access to any SiriusXM channels, including those with mature content. When enabled, the Parental Control feature requires you to enter a passcode to tune to the locked channels.
For details, see [Parental Control] in SiriusXM settings (page 77).

SiriusXM settings

1 **Press** .

2 **Touch** **then** .

The system setting screen appears.

3 **Touch [AV Source Settings].**

4 **Touch [SiriusXM settings].**

The menu items vary according to the source.

Menu Item	Description
[Tune Start] [On] [Off]	Start songs automatically from the beginning when you tune to one of your preset channels in the current preset band when TuneStart™ is turned on.
[Parental Control]	Enter the current passcode then touch to set this function (the default passcode is 0000). • To edit the passcode, touch [Edit Code] then touch followed by entering the new passcode. • To lock the channel, touch the appropriate channel. appears and the channel is locked. **TIPS** • When you touch the locked channel, the channel is unlocked. • When you touch [Clear All], all locked channels are unlocked.

Menu Item	Description
[Featured Favorites] [On] [Off]	Set to [On] to allow you to discover new channels created by the SiriusXM Programming department. **NOTE** If the Featured Favorite Band needs to update, the Featured Band Update message will appear.
[Featured Band Update Message] [On] [Off]	To be notified when the featured seasonal theme is updated. **TIP** To display [Featured Band Update Message] at all times, [Featured Favorites] needs to be set to [On].
[SportsFlash] [On] [Off]	Activates the SportsFlash™ function. • Touch [Play] to listen to the notified channel. • Touch [Ignore] to stay tuned to the current channel. • Touch [Cancel] to cancel notifications regarding the game.
[SportsFlash List]	Select favorite teams for SportsFlash™. • Touch [Edit List] then select a league and team to set the favorite. **TIPS** • You can touch an item again to deselect it. • If you want to remove all the teams you have set, touch [Clear All]. **Setting of priorities** If you set many Favorite Teams, up to 5 Favorite Teams can be received at once. Set the priorities if more than six teams are set as Favorite Teams. **1 Touch [Prioritize] on the team selection screen.** **2 Select the five high priority teams from the selected favorite teams.**
[City List]	Select the city for the latest traffic and weather report in Traffic & Weather Now™.
[SiriusXM Reset]	Set to restore to the default Sirius XM settings by touching [Restore]. **⚠ CAUTION** Do not turn off the engine while restoring the settings. **NOTES** • This setting is available only when you stop your vehicle in a safe place and apply the parking brake. • The source is turned off and the Bluetooth connection is disconnected before the process starts.

AUX

You can display the video image output by the device connected to video input.

⚠ CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, stop in a safe place and apply the parking brake.

NOTE

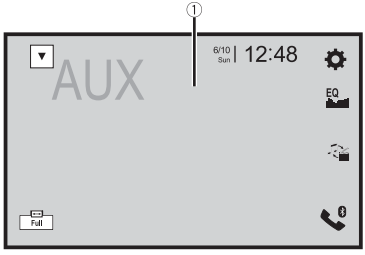
A Mini-jack AV cable (sold separately) is required for connection. For details, refer to the Installation Manual.

Starting procedure

1. **Press** [▮▮].
2. **Touch** [⚙] **then** [🔧].
3. **Touch [Input/Output settings].**
4. **Confirm that [AUX Input] is turned on.**
5. **Press** [▪▪] **then touch** [AV].
6. **Touch [AUX].**
   The AUX screen appears.

Basic operation

AUX screen



①	**Hides the touch panel keys.** To display the keys again, touch anywhere on the screen. **TIP** You can set the screen size for the video image (page 107).
	Switches between the video input and audio input.

AV input

You can display the video image output by the device connected or the camera to video input. For details, refer to the Installation Manual.

⚠ CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, stop in a safe place and apply the parking brake.

Starting procedure

1. **Press [⊞].**
2. **Touch [⚙] then [🔧].**
3. **Touch [Input/Output settings].**
4. **Touch [AV Input].**
5. 2440NEX 1440NEX
   Touch [Source] for AV source or [Camera] for camera.
   2400NEX 1400NEX
   Touch [On].
6. **Press [⊞] then touch [*AV*].**
7. 2440NEX 2400NEX
   Touch [AV] for AV source or [Camera View] for camera.
   2400NEX 1400NEX
   Touch [AV].
   The image is displayed on the screen.

MIXTRAX

MIXTRAX is an original technology for creating non-stop mixes of selections from your audio library, complete with DJ effects.

MIXTRAX EZ operation

You can use this unit to play USB audio files.
MIXTRAX EZ is used to add a variety of sound effects between songs for arranging the pauses between songs.
It allows you to enjoy listening to music non-stop.

NOTES

- This function is only available when a file on a USB storage device is being played.
- Depending on the file/song, sound effects may not be available.
- Depending on the file/song, non-stop playback may not be available.

Starting procedure

1 **Touch** [MIXTRAX EZ].

(Example: USB)

MIXTRAX EZ	**Activates the MIXTRAX mode.**
▶/II	**Switches between playback and pause.**
I◀◀ ▶▶I	**Selects a track.**

MIXTRAX settings

1 **Press** [⊞].

2 **Touch** [⚙] **then** [🔧].
The system setting screen appears.

3 **Touch [AV Source Settings].**

4 **Touch [MIXTRAX Settings].**

Menu Item	Description
[Short Playback Mode] [Off] [60s] [90s] [120s] [150s] [180s] [Random]	Specify the playback portion.
[Display Effect] [On] [Off]	Set the effect display for MIXTRAX.
[Cut-In Effect] [On] [Off]	Set the effect tone that sounds when you skip tracks forward or backward.
[Effect Setting] [Standard] [Simple] [Custom]	Set and play back the MIXTRAX effect that you want.
[Flash Pattern]	The flashing color changes with the changes in the sound and bass levels.
[Sound1] to [Sound6]	The flash pattern changes according to the sound level.
[L-Pass1] to [L-Pass6]	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.
[Off]	Set the flash pattern to off.

iDatalink

Using iDatalink

You can access the satellite radio source provided for the vehicle. The vehicle information and many OEM systems such as steering wheel controls, warning chimes, driver safety systems, and etc. can be displayed on this product by connecting the optional iDatalink adapter. It is also possible to add visual screens such as gauges, vehicle information, climate control, and parking assist. However, an extra interface module is required to access these features.

NOTE

Since the type of module varies depending on the vehicle model, search for your vehicle at the following URL to determine what features are available for each module. Remember to select the correct radio model for accurate results.
http://maestro.idatalink.com/support

Important

- For details about vehicle models that are compatible with the iDatalink adapter, refer to the information on our website.
- After installing the iDatalink adapter, be sure to check the operations.
- Functions and displays vary depending on the vehicle model. For details of the functions available for each model, refer to the information on our website.
- For troubleshooting information about iDatalink functions, visit the following website.
  http://maestro.idatalink.com/support

Limitations

- The data is transmitted to this product from your vehicle system via the connected iDatalink adapter. Therefore, the actual data contents displayed on your product may be different from the contents on the screen described in this manual.
- When information on your vehicle or on the devices of your vehicle is sent from the iDatalink Maestro module, a screen notifying you of such information may pop up.

Activating iDatalink Maestro

Before using and/or connecting the iDatalink Maestro adapter, you will need to first flash the Maestro RR module with the appropriate vehicle and head unit firmware.

1. **Find the device number (12 alphanumeric characters) on the label on the packaging of this product or on the product itself.**
2. **Access the following website and follow the on-screen instructions to configure the desired firmware.**
   http://maestro.idatalink.com/

NOTE

When the serial number input is required, input the device number of this product.

3 **Install the vehicle/head unit specific firmware on your iDatalink Maestro module.**

4 **Connect this product to iDatalink Maestro, and then install this product to the vehicle.**

The iDatalink function will be active.

NOTES

- For details on installing the firmware, refer to iDatalink Maestro website.
- For details on connecting this product to iDatalink Maestro, refer to the Installation Manual.
- You can also check the device number on the [Firmware Information] screen of this product (page 94).

Starting procedure

1 **Connect the iDatalink Maestro adapter to this product.**

For details, refer to the Installation manual.

2 **Press** [▮▮] **then touch** [*AV*].

3 **Touch [Car Sources] or [Car Features].**

The touched menu screen appears.

Using functions in Car Sources

These operations are almost similar to the built in AV sources of this product. For details of the operations, refer to the related pages.

- USB/iPod operations (page 52) (page 60)
- SiriusXM tuner operations (page 72)
- Bluetooth audio operations (page 29)
- Hands-free phone operations (page 24)

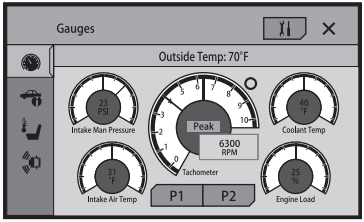
Using functions in Car Features

You can check and operate the following screens after selecting [Car Features] in the starting procedure. Touch one of the icons on the left side of the screen to change the feature.

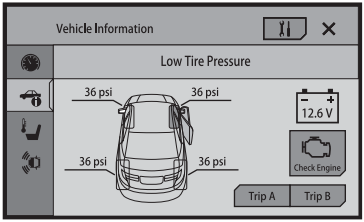
	Displays the Gauge screen.
	Displays the Vehicle Information screen.

	Displays the Climate screen.
	Displays the Parking Assist screen.

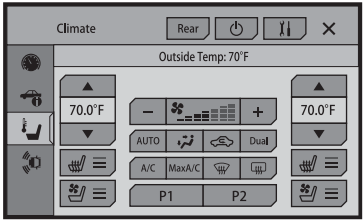
Gauges screen



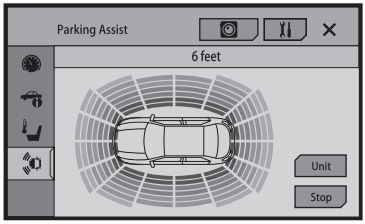
Vehicle Information screen



Climate screen



Parking Assist screen



Displaying obstacle detection information

⚠ CAUTION

This function is intended solely to assist the driver's vision. It does not detect all dangers and obstacles and is not a substitute for your attentiveness, judgement, and care while parking your vehicle.

NOTE

This function is only available for vehicles equipped with a parking sensor system.

iDatalink settings

1. Press [⊞].
2. Touch [⚙] then [🔧].
3. Touch **[OEM Settings]** or **[OEM Volume Settings]**.
   The setting screen for iDatalink appears.

Menu Item	Description
[OEM Settings]	Setting for iDatalink function when the iDatalink adapter is connected to the unit.
[OEM Volume Settings]	Setting for iDatalink function volume when the iDatalink adapter is connected to the unit.

Settings

You can adjust various settings in the main menu.

Displaying the setting screen

1 **Press** [⊞].

2 **Touch** [⚙].

3 **Touch one of the following categories, then select the options.**

- System settings (page 88)
- Theme settings (page 95)
- Audio settings (page 96)
- Video settings (page 102)
- Bluetooth settings (page 22)

System settings

The menu items vary according to the source.

[AV Source Settings]

Menu Item	Description
[MIXTRAX Settings]	(page 83)
[Radio settings]	(page 45)
[SiriusXM settings]	(page 77)
[Bluetooth Audio] [On] [Off]	Setting Bluetooth audio source activation.
[Spotify] [On] [Off]	Setting Spotify source activation.

[Beep Tone]

Menu Item	Description
[Beep Tone] [On] [Off]	Select [Off] to disable the beep sound when the button is pressed or the screen is touched.

[Auto Mix]

Menu Item	Description
[Auto Mix] [On] [Off]	Select whether to perform mixing the sound output from AppRadio Mode + and AV source sound automatically.

[Input/Output settings]

Menu Item	Description
[USB MTP] [On] [Off]	Select whether or not to activate USB MTP (Media Transfer Protocol) connection.
[AppRadio Mode Sound]	Set where the sound for AppRadio Mode + is output when it is used with a smartphone.
[AVH]	The sound is output from the speakers of this unit.
[Smartphone]	The sound is output from the speakers of the smartphone. **NOTE** With an iPhone, the sound is always output from the speakers of this unit.
[AV Input] [Source] [Camera] [Off]*1 [On] [Off]*2	Select AV input source (page 81).
[AUX Input] [On] [Off]	Set to [On] for AUX source (page 79).

*1 AVH-2440NEX/AVH-1440NEX
*2 AVH-2400NEX/AVH-1400NEX

[Camera settings]

A separately sold rear view camera (e.g. ND-BC8) is required for utilizing the rear view camera function. (For details, consult your dealer.)

▶Rear view camera

This product features a function that automatically switches to the full-screen image of the rear view camera installed on your vehicle when the shift lever is in the REVERSE (R) position.
Camera View mode also allows you to check what is behind you while driving.

▶Camera for Camera View mode

Camera View can be displayed at all times. Note that with this setting, the camera image is not resized to fit, and that a portion of what is seen by the camera is not viewable.

To display the camera image, touch [Camera View] on the AV source selection screen (page 36).

NOTES

- To set the rear view camera as the camera for Camera View mode, set [Back Camera Input] to [On] (page 90).
- When using the 2nd camera, set [AV Input] to [Camera] (page 81).*
- When the camera view of both the rear view camera and 2nd camera are available, the key to switch the display appears. Touch this key to switch the display between the rear view image and 2nd camera image.*

* AVH-2440NEX/AVH-1440NEX

⚠ CAUTION

Pioneer recommends the use of a camera which outputs mirror reversed images, otherwise the screen image may appear reversed.

- Immediately verify whether the display changes to the rear view camera image when the shift lever is moved to REVERSE (R) from another position.
- When the screen changes to full-screen rear view camera image during normal driving, switch to the opposite setting in [Camera Polarity].
- If you touch [⏲] while the camera image is displayed, the displayed image turns off temporarily.

Menu Item	Description
[Back Camera Input] [On] [Off]	Setting rear view camera activation.
[Camera Polarity]	Setting the polarity of the rear view camera.
[Battery]	The polarity of the connected lead is positive.
[Ground]	The polarity of the connected lead is negative.
	NOTE This function is available when [Back Camera Input] is set to [On].

[Demo Mode]

Menu Item	Description
[Demo Mode] [On] [Off]	Setting the demo mode.

[System Language]

Menu Item	Description
[System Language]	Select the system language. **NOTES** • If the embedded language and the selected language setting are not the same, the text information may not display properly. • Some characters may not be displayed properly.

[Restore Settings]

Menu Item	Description
[All Settings]	Touch [Restore] to restore the settings to the default settings. **⚠ CAUTION** Do not turn off the engine while restoring the settings. **NOTES** • This setting is available only when you stop your vehicle in a safe place and apply the parking brake. • The source is turned off and the Bluetooth connection is disconnected before the process starts.

[Keyboard]

Menu Item	Description
[Keyboard]	You can use the keyboard in AppRadio Mode + by setting the language of the keyboard for iPhone. **NOTES** • Set the same system language setting as the iPhone to operate this function properly. • This function is only available in AppRadio Mode + on the iPhone.

[Touch panel calibration]

If you feel that the touch panel keys on the screen deviate from the actual positions that respond to your touch, adjust the response positions of the touch panel screen.

NOTES

- Do not use sharp pointed tools such as ballpoint or mechanical pens. They may damage the screen.
- Do not turn off the engine while saving the adjusted position data.

• This setting is available only when you stop your vehicle in a safe place and apply the parking brake.

Menu Item	Description
[Touch panel calibration]	**1 Touch [Yes].** **2 Touch two corners of the screen along the arrows then touch the centers of the two [+] marks at the same time twice.** **3 Press [■].** The adjustment results are saved. **4 Press [■] once again.** Proceed to 16-point adjustment. **5 Gently touch the center of the [+] mark displayed on the screen.** The target indicates the order. • When you press [▮▮], the previous adjustment position returns. • When you press and hold [■], the adjustment is canceled. **6 Press and hold [■].** The adjustment results are saved.

[Dimmer Settings]

NOTE

This setting is available only when you stop your vehicle in a safe place and apply the parking brake.

Menu Item		Description
[Dimmer Trigger]		Setting the dimmer brightness.
	[Auto]	Switches the dimmer to on or off automatically according to your vehicle's headlight turning on or off.
	[Manual]	Switches the dimmer to on or off manually.
	[Time]	Switches the dimmer to on or off at the time you adjusted.
[Day/Night]		Setting the dimmer duration by day or night. You can use this function when [Dimmer Trigger] is set to [Manual].
	[Day]	Turns the dimmer function to off.
	[Night]	Turns the dimmer function to on.

Menu Item	Description
[Dimmer Duration]	Adjust the time that the dimmer is turned on or off by dragging the cursors or touching [◀] or [▶]. You can use this function when [Dimmer Trigger] is set to [Time]. **TIPS** • Each touch of [◀] or [▶] moves the cursor backward or forward in the 15 minute width. • When the cursors are placed on the same point, the dimmer available time is 0 hours. • When the cursor for off time setting is placed on the left end and the cursor for on time setting is placed on the right end, the dimmer available time is 0 hours. • When the cursor for on time setting is placed on the left end and the cursor for off time setting is placed on the right end, the dimmer available time is 24 hours. **NOTE** The time display of the dimmer duration adjusting bar depends on the clock display setting (page 107).

[Picture Adjustment]

You can adjust the picture for each source and rear view camera.

⚠ CAUTION

For safety reasons, you cannot use some of these functions while your vehicle is in motion. To enable these functions, you must stop in a safe place and apply the parking brake.

To adjust following menu, touch [◀], [▶], [▲], [▼] to adjust.

Menu Item	Description
[Brightness] [-24] to [+24]	Adjust the black intensity.
[Contrast] [-24] to [+24]	Adjust the contrast.
[Color]* [-24] to [+24]	Adjust the color saturation.
[Hue]* [-24] to [+24]	Adjust the tone of color (which color is emphasized, red, or green).
[Dimmer] [+1] to [+48]	Adjust the brightness of the display.
[Temperature] [-3] to [+3]	Adjust the color temperature, resulting in a better white balance.

* With some pictures, you cannot adjust [Hue] and [Color].

NOTES

- The adjustments of [Brightness], [Contrast], and [Dimmer] are stored separately when your vehicle's headlights are off (daytime) and on (nighttime).
- [Brightness] and [Contrast] are switched automatically depending on the setting of [Dimmer Settings].
- [Dimmer] can be changed the setting or the time to switch it to on or off (page 92).
- The picture adjustment may not be available with some rear view cameras.
- The setting contents can be memorized separately.

[System Information]

Menu Item	Description
[Firmware Information]	Displaying the firmware version.
[Firmware Update]	**⚠ CAUTION** • The USB storage device for updating must contain only the correct update file. • Never turn this product off, disconnect the USB storage device while the firmware is being updated. • You can only update the firmware when the vehicle is stopped and the parking brake is engaged. **1 Download the firmware update files into your computer.** **2 Connect a blank (formatted) USB storage device to your computer then locate the correct update file and copy it onto the USB storage device.** **3 Connect the USB storage device to this product (page 53).** **4 Turn the source off (page 36).** **5 Display the [System] setting screen (page 88).** **6 Touch [System Information].** **7 Touch [Firmware Update].** **8 Touch [Continue].** Follow the on-screen instructions to finish updating the firmware. **NOTES** • This product will reset automatically after the firmware update is completed if the update is successful. • If an error message appears on the screen, touch the display and perform the above steps again.
[License]	Displaying the open source license.

[OEM Settings]

Menu Item	Description
[OEM Settings]	(page 87).

[OEM Volume Settings]

Menu Item	Description
[OEM Volume Settings]	(page 87).

Theme settings

The menu items vary according to the source.

Menu Item	Description
[Background] [Home] [AV]	Select the wall paper from the preset items in this product or original pictures via the external device. The wall paper can be set from selections for the top menu screen and AV operation screen.
Preset Display	Select the desired preset background display.
(custom)*1	Displays the background display image imported from the external storage device.
OFF (off)	Hides the background display.
[Illumination]*2	Select an illumination color from the color list or create a defined color.
Colored Keys	Select the desired preset color.
(custom)	Displays the screen to customize the illumination color. To customize the defined color, touch then touch or to adjust the brightness and the level of red, green and blue to create favorite color. To store the customized color in the memory, touch and hold [Memo], and the customized color will be available at the next illumination setting by pressing . **TIP** You can also adjust the color tone by dragging the color bar.
(rainbow)	Shifts gradually between the preset colors in sequence.
[Theme]*2	Select the theme color.
[Clock]	Select the style of the clock from the preset image.
Preset Images	Select the desired preset style for the clock.

Menu Item	Description
OFF (off)	Hides the clock display.

*1 Refer to Still image source (page 58).
*2 You can preview the top menu screen or the AV operation screen by touching [Home] or [AV] respectively.

Audio settings

The menu items vary according to the source. Some of the menu items become unavailable when the volume is set to mute.

Menu Item	Description
[Graphic EQ] [Super Bass] [Powerful] [Natural] [Vocal] [Flat] [Custom1] [Custom2]	Select or customize the equalizer curve. Select a curve that you want to use as the basis of customizing then touch the frequency that you want to adjust. **TIPS** • If you make adjustments when a curve [Super Bass], [Powerful], [Natural], [Vocal], or [Flat] is selected, the equalizer curve settings will be changed to [Custom1] mandatorily. • If you make adjustments when the [Custom2] curve is selected for example, the [Custom2] curve will be updated. • [Custom1] and [Custom2] curves can be created common to all sources. • If you trail a finger across the bars of multiple equalizer bands, the equalizer curve settings will be set to the value of the touched point on each bar.
[Fader/Balance]	Touch ▲ or ▼ to adjust the front/rear speaker balance. Set [Front] and [Rear] to [0] when using a dual speaker system. Touch ◀ or ▶ to adjust the left/right speaker balance. **TIP** You can also set the value by dragging the point on the displayed table. **NOTE** Only the balance can be adjusted when [Network Mode] is selected as the speaker mode.
[Mute Level]	Select mute or attenuate the AV source volume and iPhone or smartphone application volume when the navigation outputs the guidance voice.
[ATT]	The volume becomes 20 dB lower than the current volume.
[Mute]	The volume becomes 0.

Menu Item	Description
[Off]	The volume does not change.
[Source Level Adjuster] [-4] to [+4]	Adjust the volume level of each source to prevent radical changes in volume when switching between sources other than FM. Touch [▲] or [▼] to adjust the source volume after comparing the FM tuner volume level with the level of the source. **TIP** If you directly touch the area where the cursor can be moved, the SLA (source level adjustment) setting will be changed to the value of the touched point. **NOTES** • Settings are based on the FM tuner volume level, which remains unchanged. • This function is not available when the FM tuner is selected as the AV source.
[Subwoofer] [On] [Off]	Select enable or disable rear subwoofer output from this product.
[Speaker Level] **Listening position*1*2** [Off] [Front-L] [Front-R] [Front] [All] **Standard Mode*3** [Front Left] [Front Right] [Rear Left] [Rear Right] [Subwoofer] **Network Mode*3** [High Left] [High Right] [Mid Left] [Mid Right] [Subwoofer] **Speaker output level** [-24] to [10]	Adjust the speaker output level of the listening position. **1 Touch [◄] or [►] to select the listening position then select the output speaker.** **2 Touch [◄] or [►] to adjust the selected speaker output level.** **NOTE** This function is available when [Subwoofer] is set to [On].
[Crossover]*4	Select a speaker unit (filter) to adjust the HPF or LPF cutoff frequency and the slope for each speaker unit (page 101).
[Subwoofer Settings]*4	Select the subwoofer phase (page 101).
[Listening Position]*1 [Off] [Front Left] [Front Right] [Front] [All]	Select a listening position that you want to make as the center of sound effects.

Menu Item	Description
[Time Alignment] [On] [Off] **Listening position*1*2** [Off] [Front-L] [Front-R] [Front] [All] **Standard Mode*3*5** [Front Left] [Front Right] [Rear Left] [Rear Right] [Subwoofer] **Network Mode*3*5** [High Left] [High Right] [Mid Left] [Mid Right] [Subwoofer] **Distance** [0] to [140]	Select or customize the time alignment settings to reflect the distance between the listener's position and each speaker. You need to measure the distance between the head of the listener and each speaker unit. **1 Touch ◀ or ▶ to select the listening position then select the alignment speaker.** **2 Touch ◀ or ▶ to input the distance between the selected speaker and listening position.** **TIP** If you touch [TA On], the time alignment is turned off mandatorily. **NOTE** This function is available only when the listening position setting is set to [Front-L] or [Front-R].
[Auto EQ] [On] [Off]	Set the auto-adjusted equalizer to suit the vehicle's acoustics. To use this function, the Auto EQ measurement must be done in advance (page 100).
[A-EQ&TA Measurement]	Measures and adjusts the vehicles acoustics, equalizer, and time alignment automatically to suit the vehicle interior (page 100).
[Save Settings]	Save to recall the following current sound settings by touching [OK]: bass boost, slope, subwoofer phase, speaker level, Graphic EQ, HPF/LPF, listening position, crossover, time alignment. **TIP** When you touch [Cancel], return to the [Audio] setting screen.
[Load Settings] [Initial Settings] [Sound Setting] [Auto EQ&TA Setting]	Load the sound settings. **NOTES** • [Sound Setting] is available only when you have already saved the sound settings (page 98). • [Auto EQ&TA Setting] is available only when you have already performed Auto EQ measurement (page 99).
[BASS Boost] [0] to [6]	Adjust the bass boost level.
[Rear Speaker Output] [Rear] [Subwoofer]	Select the rear speaker output. **NOTE** This function is available when [Standard Mode] is selected as the speaker mode.
[Loudness] [Off] [Low] [Mid] [High]	Compensates for deficiencies in the low-frequency and high-frequency ranges at low volume.

Menu Item	Description
[Automatic Level Control]	Corrects automatically the audio level difference between the music files or the sources.
[Off]	Turns the auto level control setting off.
[Mode1]	Corrects a little the audio level difference between the music files or the sources (for the narrow dynamic range audio signal).
[Mode2]	Corrects widely the audio level difference between the music files or the sources (for the wide dynamic range audio signal).
[Sound Retriever] [Off] [Mode1] [Mode2]	Enhances compressed audio and restores rich sound automatically. **TIP** [Mode2] has a stronger effect than [Mode1].

*1 [All] is not available when [Network Mode] is selected as the speaker mode.
*2 If you change the listening position setting, the output levels of all the speakers will change in conjunction with the setting.
*3 To use this function, the vehicle's acoustics must be measured in advance.
*4 This function is not available when adjusting the High speaker.
*5 This function is available only when the listening position setting is set to [Front Left] or [Front Right].

Adjusting the equalizer curve automatically (Auto EQ)

By measuring the vehicle's acoustics, the equalizer curve can be adjusted automatically to suit the vehicle interior.

⚠ WARNING

A loud tone (noise) may be emitted from the speakers when measuring the vehicle's acoustics. Never perform Auto EQ measurement while driving.

⚠ CAUTION

- Thoroughly check the conditions before performing Auto EQ as the speakers may be damaged if this is performed under the following conditions:
  – When the speakers are incorrectly connected. (For example, when a rear speaker is connected as a subwoofer output.)
  – When a speaker is connected to a power amp delivering output higher than the speaker's maximum input power capability.
- If a microphone for acoustical measurement (sold separately) is not placed in the appropriate location, the measurement tone may become loud and measurement may take a long time, resulting in battery drainage. Be sure to place the microphone in the specified location.

▸Before operating the Auto EQ function

- Perform Auto EQ in a quiet place with the vehicle engine and air conditioning switched off. Also, cut the power of car phones or cellular phones in the vehicle, or remove them in advance. Surrounding sounds may prevent correct measurement of the vehicle's acoustics.
- Be sure to use the microphone for acoustical measurement (sold separately). Using other microphones may prevent measurement, or result in incorrect measurement of the vehicle's acoustics.
- To perform Auto EQ, the front speakers must be connected.
- When this product is connected to a power amp with input level control, Auto EQ may be impossible if the power amp's input level is set below the standard level.
- When this product is connected to a power amp with an LPF (low pass filter), turn the LPF off before performing Auto EQ. Also, set the cutoff frequency for the built-in LPF of an active subwoofer to the highest frequency.
- The distance has been calculated by a computer to provide optimum delay to ensure accurate results. Do not change this value.
  – The reflected sound within the vehicle is strong and delay occurs.
  – The LPF on active subwoofers or external amps delay the lower sounds.
- If an error occurs during measurement, check the following before measuring the vehicle's acoustics.
  – Front speakers (left/right)
  – Rear speakers (left/right)
  – Noise
  – Microphone for acoustical measurement (sold separately)
  – Low battery

▸Performing Auto EQ

⚠ CAUTION

Do not turn off the engine while the measurement is in progress.

NOTES

- Auto EQ changes the audio settings as follows:
  – The fader/balance settings return to the center position (page 96).
- Previous settings for Auto EQ will be overwritten.

1 **Stop the vehicle in a quiet place, close all doors, windows, and sun roof, and then turn the engine off.**

If the engine is left running, engine noise may prevent correct Auto EQ.

NOTE

If driving restrictions are detected during measurement, the measurement is canceled.

2 **Fix the microphone for acoustical measurement (sold separately) in the center of the headrest of the driver's seat, facing forward.**

The Auto EQ may differ depending on where you place the microphone. If desired, place the microphone on the front passenger seat and perform Auto EQ.

3 **Disconnect the iPhone or smartphone device.**

4 **Turn on the ignition switch (ACC ON).**
If the vehicle's air conditioner or heater is turned on, turn it off.

5 **Switch the AV source to [Source OFF] (page 36).**

6 **Press** [⊞].

7 **Touch** [⚙] **then** [🔊].

8 **Touch [A-EQ&TA Measurement].**

9 **Connect the microphone for acoustical measurement (sold separately) with this product.**
Plug the microphone into the AUX input jack on the back panel of this product.

NOTE
Use an extension cable (sold separately) if the cord of the microphone (sold separately) is not long enough.

10 **Touch [Front Left] or [Front Right] to select the current listening position.**

11 **Touch [Start].**
A 10-second countdown starts.

NOTE
The Bluetooth connection is disconnected before the process starts.

12 **Exit the vehicle and keep the doors closed until the countdown finishes.**
When the countdown finishes, a measurement tone (noise) is emitted from the speakers and Auto EQ measurement begins.

13 **Wait until the measurement is completed.**
When Auto EQ is completed, a message is displayed.

NOTE
The measurement time varies depending on the type of vehicle.

TIP
To stop the measurement, touch [Stop].

14 **Store the microphone carefully in the glove compartment or another safe place.**
If the microphone is subjected to direct sunlight for an extended period, high temperatures may cause distortion, color change, or malfunction.

Adjusting the cutoff frequency value

You can adjust the cutoff frequency value of each speaker.
The following speakers can be adjusted:
[**Standard Mode**]: Front, Rear, Subwoofer.
[**Network Mode**]: High, Mid, Subwoofer.

NOTE

[Subwoofer Settings] is available only when [Subwoofer] is [On].

1 **Press [⊞].**

2 **Touch [⚙] then [🔊].**

3 **Touch [Crossover] or [Subwoofer Settings].**

4 **Touch [◀] or [▶] to switch the speaker.**

5 **Drag the graph line to set the cutoff position.**

6 **Drag the lowest point of the graph to set the cutoff slope.**
The following items can also be set.

Phase	Switches the subwoofer phase between normal and reverse position.
LPF/HPF	Switches the LPF/HPF setting to [On] or [Off]. When it is turned off, the high-pass filter or low-pass filter of each speaker can also be turned on by touching the graph lines.

Video settings

The menu items vary according to the source.

[DVD Setup]

This setting is available when the selected source is [Disc], [CD], [Video CD] or [DVD].

Menu Item	Description
[Subtitle Language]*1*2*3	Set a subtitle language preference. When you select [Others], a language code input screen is shown. Input the four-digit code of the desired language then touch [↵].
[Audio Language]*1*2*3	Set an audio language preference. When you select [Others], a language code input screen is shown. Input the four-digit code of the desired language then touch [↵].
[Menu Language]*1*2*3	Set a menu language preference. When you select [Others], a language code input screen is shown. Input the four-digit code of the desired language then touch [↵].
[Multi Angle] [On] [Off]	Set to display the angle icon on the screen.

Menu Item	Description
[TV Aspect]	Set the aspect ratio suitable for your rear display 16:9 (wide screen display) or 4:3 (regular display). (We recommend use of this function only when you want to fit the aspect ratio to the rear display.) **NOTES** • When using a regular display, select either [Letter Box] or [Pan Scan]. Selecting [16:9] may result in an unnatural image. • If you select the TV aspect ratio, this product's display will change to the same setting. • When playing discs that do not have a panscan system, the disc is played back with [Letter Box] even if you select the [Pan Scan] setting. Confirm whether the disc package bears the 16:9 LB mark. • The TV aspect ratio cannot be changed for some discs. For details, refer to the disc's instructions.
[16:9]	Displays the wide screen image (16:9) as it is (initial setting).
[Letter Box]	Makes the image in the shape of a letterbox with black bands on the top and bottom of the screen.
[Pan Scan]	Cuts the image short on the right and left sides of the screen.

Menu Item	Description
[Parental]	Set restrictions so that children cannot watch violent or adult-oriented scenes. You can set the parental lock level in steps as desired. **1 Touch [0] to [9] to input a four-digit code number.** **2 Touch [↵].** Registers the code number, and you can now set the level. **3 Touch any number between [1] to [8] to select the desired level.** The lower the level is set, the tighter the restriction is applied. **4 Touch [↵].** Sets the parental lock level. **NOTES** • We recommend keeping a record of your code number in case you forget it. • The parental lock level is recorded on the disc. You can confirm it by looking at the disc package, the included booklet, or the disc itself. You cannot use parental lock with discs that do not feature a recorded parental lock level. • With some discs, parental lock operates to skip certain scenes only, after which normal playback resumes. For details, refer to the disc's instructions.
[DVD Auto Play] [On] [Off]	Set to display the DVD menu automatically and start playback from the first chapter of the first title when a DVD disc with a DVD menu is inserted. **NOTE** Some DVDs may not operate properly. If this function is not fully operable, turn this function off and start playback.

*1 You can switch the language by touching the switch languages key during playback.
*2 The setting made here will not be affected even if the language is switched during playback using the appropriate key.
*3 If the selected language is not available, the language specified on the disc is displayed.

[Time Per Photo Slide]

Menu Item	Description
[Time Per Photo Slide] [5sec] [10sec] [15sec] [Manual]	Select the interval of image file slideshows on this product.

[Video Signal Setting]

Menu Item	Description
[AV] [Auto] [PAL] [NTSC] [PAL-M] [PAL-N] [SECAM]	Select the suitable video signal setting when you connect this product to an AV equipment.
[AUX] [Auto] [PAL] [NTSC] [PAL-M] [PAL-N] [SECAM]	Select the suitable video signal setting when you connect this product to an AUX equipment.
[Camera] [Auto] [PAL] [NTSC] [PAL-M] [PAL-N] [SECAM]	Select the suitable video signal setting when you connect this product to a rear view camera.

Favorite menu

Registering your favorite menu items in shortcuts allows you to quickly jump to the registered menu screen by a simple touch on the [Favorites] screen.

NOTE

Up to 12 menu items can be registered in the favorite menu.

Creating a shortcut

1. **Press [⊞] then touch [⚙].**
2. **Touch the star icon of the menu item.**
   The star icon for the selected menu is filled in.

TIP

To cancel the registration, touch the star icon in the menu column again.

Selecting a shortcut

1. **Press [⊞] then touch [⚙].**
2. **Touch [★].**
3. **Touch the menu item.**

Removing a shortcut

1. **Press [⊞] then touch [⚙].**
2. **Touch [★].**
3. **Touch and hold the favorite menu column.**
   The selected menu item is removed from the [Favorites] screen.

TIP

You can also remove a shortcut by touching and holding the registered menu column.

Other functions

Setting the time and date

1 **Touch the current time on the screen.**

2 **Touch ▲ or ▼ to set the correct time and date.**
You can operate the following items: Year, month, date, hour, minute.

TIPS

- You can change the time display format to [12hour] or [24hour].
- You can change the order of date display format: Day-month, Month-day.

Changing the wide screen mode

You can set the screen mode for AV screen and image files.

1 **Touch the screen display mode key.**

①	**Screen display mode key**

2 **Touch the desired mode.**

[Full]	Displays images across the entire screen. **NOTE** Some images may not be displayed across the entire screen.
[Zoom]	Displays the images enlarging them vertically.
[Normal]	Displays images without changing the ratio.

[Trimming]	An image is displayed across the entire screen with the horizontal-to-vertical ratio left as is. If the screen ratio differs from the image, the image may be displayed partly cut off either at the top/bottom or sides. **NOTE** [Trimming] is for image files only.

TIPS

- Different settings can be stored for each video source.
- When a video is viewed in wide screen mode that does not match its original aspect ratio, it may appear different.
- The video image will appear coarser when viewed in [Zoom] mode.

NOTES

- Image files can be set to either [Normal] or [Trimming] in wide screen mode.
- Depending on the software version of this unit, this function may vary.

Restoring this product to the default settings

You can restore settings or recorded content to the default settings from [Restore Settings] in the [System] menu (page 91).

Apple CarPlay™

You can operate iPhone applications with finger gestures such as tapping, dragging, scrolling, or flicking on the screen of this product.

Compatible iPhone models

iPhone 7, iPhone 7 Plus, iPhone SE, iPhone 6s, iPhone 6s Plus, iPhone 6, iPhone 6 Plus, iPhone 5s, iPhone 5c, iPhone 5

NOTE

The compatible finger gestures vary depending on the application for the iPhone.

⚠ WARNING

Certain uses of the iPhone may not be legal while driving in your jurisdiction, so you must be aware of and obey any such restrictions. If in doubt as to a particular function, only perform it while the car is parked. No feature should be used unless it is safe to do so under the driving conditions you are experiencing.

Using Apple CarPlay

Important

Apple CarPlay may not be available in your country or region.
For details about Apple CarPlay, visit the following site:
http://www.apple.com/ios/carplay

- The content and functionality of the supported applications are the responsibility of the App providers.
- In Apple CarPlay, usage is limited while driving, with availability of functions and content determined by the App providers.
- Apple CarPlay allows access to applications other than those listed that are subject to limitations while driving.
- PIONEER IS NOT RESPONSIBLE AND DISCLAIMS LIABILITY FOR THIRD PARTY (NON-PIONEER) APPS AND CONTENT, INCLUDING WITHOUT LIMITATION ANY INACCURACIES OR INCOMPLETE INFORMATION.

Setting the driving position

To achieve optimum usability of Apple CarPlay, set the driving position setting correctly according to the vehicle. The setting will be applied the next time an Apple CarPlay compatible device is connected to this product.

1 **Press** [▮▮].

2 **Touch** [⚙] **then** [🔧].
The system setting screen appears.

3 **Touch [Driving Position].**

4 **Touch the item.**

[**Left**]

Select for a left-hand drive vehicle.

[**Right**]

Select for a right-hand drive vehicle.

Starting procedure

1 **Connect an Apple CarPlay compatible device to this product via USB.**

2 **Press** [⊞].

3 **Touch** [📱].

4 **Touch [Apple CarPlay].**

5 **Touch Apple CarPlay icon in the tab.**

The application screen appears.

TIP

You can use Siri function by pressing [🎙] once Apple CarPlay is activated.

NOTES

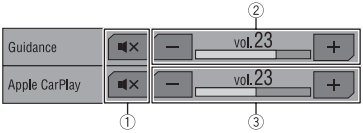
- If an Apple CarPlay compatible device has been connected and another screen is displayed, touch [Apple CarPlay] on the top menu screen to display the Application menu screen.
- The Bluetooth connection with the Apple CarPlay compatible device will be terminated automatically if Apple CarPlay is turned on. While Apple CarPlay is turned on, only a Bluetooth audio connection will be possible for devices other than the device connected via Apple CarPlay.
- Hands-free phoning via Bluetooth wireless technology is not available while Apple CarPlay is on. If Apple CarPlay is turned on during a call on a cellular phone other than an Apple CarPlay compatible device, the Bluetooth connection will be terminated after the call ends.
- Refer to the Installation Manual for details on connecting a device to this product.

Adjusting the volume

You can adjust the guidance volume separately from the main sound volume when Apple CarPlay is used.

1 **While Apple CarPlay is activated, press VOL (+/-).**

The volume menu will be displayed on the screen.



①	**Touch to mute. Touch again to cancel mute.**
②	**Touch [+]/[-] to adjust the guidance volume.**
③	**Displays the main sound volume. To adjust the main sound volume, press VOL (+/-) on the unit or touch [+]/[-].**

NOTE

The volume menu is displayed for four seconds. If the menu disappears, press **VOL (+/-)** again. The menu reappears.

Android Auto™

2440NEX 2400NEX

You can operate Android applications with finger gestures such as tapping, dragging, scrolling, or flicking on the screen of this product.

Compatible Android devices

Requires the Android Auto app on Google Play and an Android compatible smartphone running Android 5.0 Lollipop or higher.

NOTES

- [USB MTP] is set to [Off] to use Android Auto (page 89).
- The compatible finger gestures vary depending on the application for the smartphone.

⚠ WARNING

Certain uses of the smartphone may not be legal while driving in your jurisdiction, so you must be aware of and obey any such restrictions. If in doubt as to a particular function, only perform it while the car is parked. No feature should be used unless it is safe to do so under the driving conditions you are experiencing.

Using Android Auto

Important

Android Auto may not be available in your country or region.
For details about Android Auto, please refer to the Google support site:
http://support.google.com/androidauto

- The content and functionality of the supported applications are the responsibility of the App providers.
- In Android Auto, usage is limited while driving, with availability of functions and content determined by the App providers.
- Android Auto allows access to applications other than those listed that are subject to limitations while driving.
- PIONEER IS NOT RESPONSIBLE AND DISCLAIMS LIABILITY FOR THIRD PARTY (NON-PIONEER) APPS AND CONTENT, INCLUDING WITHOUT LIMITATION ANY INACCURACIES OR INCOMPLETE INFORMATION.

Setting the driving position

To achieve optimum usability of Android Auto, set the driving position setting correctly according to the vehicle. The setting will be applied the next time an Android Auto compatible device is connected to this product.

1 **Press** [⊞].

2 **Touch** [⚙] **then** [🔧].

The system setting screen appears.

3 **Touch [Driving Position].**

4 **Touch the item.**
[**Left**]
Select for a left-hand drive vehicle.
[**Right**]
Select for a right-hand drive vehicle.

Starting procedure

1 **Connect an Android Auto™ compatible device to this product via USB.**

2 **Press** [⊞].

3 **Touch** [📱].

4 **Touch [Android Auto].**

5 **Touch Android Auto icon in the tab.**
The application screen appears.

TIP

You can use voice recognition function by pressing [🎤] once Android Auto is activated.

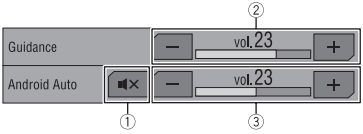
NOTES

- When the device for Android Auto is connected to this unit, the device is also connected via Bluetooth at the same time. If five devices are already paired, the message confirming whether to delete the registered device is displayed. If you want to delete the device, touch [Agree]. If you want to delete other device, touch [BT Settings] and delete the devices manually (page 23).
- If Android Auto is turned on during a call on a cellular phone other than the Android Auto compatible device, the Bluetooth connection will switch to the Android Auto compatible device after the call.
- Refer to the Installation Manual for details on connecting a device to this product.

Adjusting the volume

You can adjust the guidance volume separately from the main sound volume when Android Auto is used.

1 **While Android Auto is activated, press VOL (+/-).**
The volume menu will be displayed on the screen.



①	**Touch to mute. Touch again to cancel mute.**
②	**Touch [+]/[-] to adjust the guidance volume.**
③	**Displays the main sound volume. To adjust the main sound volume, press VOL (+/-) on the unit or touch [+]/[-].**

NOTE

The volume menu is displayed for four seconds. If the menu disappears, press **VOL (+/-)** again. The menu reappears.

Setting the auto-launch function

If this function is set to on, Android Auto will launch automatically when an Android Auto compatible device is connected to this product.

NOTE

Android Auto will launch automatically only when an Android Auto compatible device is correctly connected to this product.

1 **Press [⊞].**

2 **Touch [⚙] then [🔧].**

3 **Touch [Android Auto Auto-launch] to switch [On] or [Off].**

Appendix for Apple CarPlay and Android Auto

Error messages

When problems occur with this product, an error message appears on the display. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, record the error message and contact your dealer or your nearest Pioneer service center.

Apple CarPlay

Attempting to connect to Apple CarPlay.

- Communication failed and the system is trying to connect.
- Wait for a while. Then, perform the actions below if the error message is still displayed.
  - Restart the iPhone.
  - Disconnect the cable from the iPhone, and then connect the iPhone again after a few seconds.
  - Turn the ignition switch to OFF and then to ON.

If the error message is still displayed after performing the above action, please contact your dealer or an authorized Pioneer Service Station.

Android Auto

2440NEX 2400NEX

Android Auto has stopped.

- The connected device is not compatible with Android Auto.
  - Check if the device is compatible with Android Auto.
- The startup of Android Auto failed for some reasons.
  - Disconnect the cable from the smartphone, and then connect the smartphone again after a few seconds.
  - Restart the smartphone.
  - Turn the ignition switch to OFF and then to ON.

If the error message is still displayed after performing the above action, please contact your dealer or an authorized Pioneer Service Station.

- The time set in this product is not correct.
  - Check if the time is correctly set.

Bluetooth pairing failed. Please pair your Android phone manually.

- The Bluetooth pairing failed for some reasons.
  - Pair this product with the device manually.

To use Android Auto, please stop your car and check your Android phone.

- The default settings are displayed on the screen of the Android Auto compatible device or images are not output from the Android Auto compatible device.
  - Park your vehicle in a safe place, and follow the instructions displayed on the screen. If the error message is still displayed after performing on-screen instructions, please reconnect the device.

Detailed information regarding connected iPod devices

- Pioneer accepts no responsibility for data lost from an iPod, even if that data is lost while using this product. Please back up your iPod data regularly.
- Do not leave the iPod in direct sunlight for extended amounts of time. Extended exposure to direct sunlight can result in iPod malfunction due to the resulting high temperature.
- Do not leave the iPod in any location 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 gas pedal.
- For details, refer to the iPod manuals.

iOS

iOS is a trademark on which Cisco holds the trademark right in the US and certain other countries.

iPhone, iPod and Lightning®

Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge, 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 an Apple product may affect wireless performance.
iPhone, iPod, iPod nano, iPod touch, and Lightning are trademarks of Apple Inc., registered in the U.S. and other countries.

Apple CarPlay

Apple CarPlay is a trademark of Apple Inc.
Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards.

Siri

Works with Siri through the microphone.

Using app-based connected content

Important

Requirements to access app-based connected content services using this product:

- Latest version of the Pioneer compatible connected content application(s) for the smartphone, available from the service provider, downloaded to your smartphone.
- A current account with the content service provider.
- Smartphone Data Plan.
  Note: if the Data Plan for your smartphone does not provide for unlimited data usage, additional charges from your carrier may apply for accessing

app-based connected content via 3G, EDGE and/or LTE (4G) networks.
- Connection to the Internet via 3G, EDGE, LTE (4G) or Wi-Fi network.
- Optional Pioneer adapter cable connecting your iPhone to this product.

Limitations:
- Access to app-based connected content will depend on the availability of cellular and/or Wi-Fi network coverage for the purpose of allowing your smartphone to connect to the Internet.
- Service availability may be geographically limited to the region. Consult the connected content service provider for additional information.
- Ability of this product to access connected content is subject to change without notice and could be affected by any of the following: compatibility issues with future firmware versions of smartphone; compatibility issues with future versions of the connected content application(s) for the smartphone; changes to or discontinuation of the connected Content application(s) or service by its provider.
- Pioneer is not liable for any issues that may arise from incorrect or flawed app-based content.
- The content and functionality of the supported applications are the responsibility of the App providers.
- In Apple CarPlay and Android Auto, functionality through the product is limited while driving, with available functions determined by the App providers.
- Availability of Apple CarPlay and Android Auto functionalities is determined by the App provider, and not determined by Pioneer.
- Apple CarPlay and Android Auto allow access to applications other than those listed (subject to limitations while driving), but the extent to which content can be used is determined by the App providers.

Appendix

Troubleshooting

If you have problems operating this product, refer to this section. The most common problems are listed below, along with likely causes and solutions. If a solution to your problem cannot be found here, contact your dealer or the nearest authorized Pioneer service facility.

Common problems

A black screen is displayed, and operation is not possible using the touch panel keys.

→ [Power OFF] mode is on.
– Press any button on this product to release the mode.

Problems with the AV screen

CD or DVD playback is not possible.

→ The disc is inserted upside down.
– Insert the disc with the label upward.
→ The disc is dirty.
– Clean the disc.
→ The disc is cracked or otherwise damaged.
– Insert a normal, round disc.
→ The files on the disc are in an irregular file format.
– Check the file format.
→ The disc format cannot be played back.
– Replace the disc.
→ The loaded disc is a type this product cannot play.
– Check what type of disc it is.

The screen is covered by a caution message and the video cannot be shown.

→ The parking brake lead is not connected or the parking brake is not applied.
– Connect the parking brake lead correctly, and apply the parking brake.
→ The parking brake interlock is activated.
– Park your vehicle in a safe place and apply the parking brake.

No video output from the connected equipment.

→ The [AV Input] or [AUX Input] setting is incorrect.
– Correct the settings.

The audio or video skips.

→ This product is not firmly secured.
– Secure this product firmly.

No sounds are produced. The volume level will not rise.

→ Cables are not connected correctly.
– Connect the cables correctly.
→ The system is performing still, slow motion, or frame-by-frame playback with DVD-Video.
– There is no sound during still, slow motion, or frame-by-frame playback with DVD-Video.
→ The system is paused or performing fast reverse or forward during the disc playback.
– For the media other than music CD (CD-DA), there is no sound on fast reverse or forward.

The icon ⃠ is displayed, and operation is impossible.

→ The operation is not compatible with the video configuration.

– The operation is not possible. (For example, the DVD playing does not feature that angle, audio system, subtitle language, etc.)

Random playback in Music Browse mode is released in the USB storage device.

→ Random playback in Music Browse mode is canceled after the ignition switch is turned off (ACC OFF).
– Switch to Music Browse mode again and turn on random playback.

The picture stops (pauses) and this product cannot be operated.

→ The reading of data is impossible during disc playback.
– Stop playback once, then restart.

The picture is stretched, with an incorrect aspect ratio.

→ The aspect setting is incorrect for the display.
– Select the appropriate setting for that image.

A parental lock message is displayed and DVD playback is not possible.

→ The parental lock is on.
– Turn the parental lock off or change the level.

The parental lock for DVD playback cannot be canceled.

→ The code number is incorrect.
– Input the correct code number.

Playback is not with the audio language and subtitle language settings selected in [DVD Setup].

→ The DVD playing does not feature dialog or subtitles in the language selected in [DVD Setup].
– Switching to a selected language is not possible if the language selected in [DVD Setup] is not recorded on the disc.

The picture is extremely unclear/ distorted and dark during playback.

→ The disc features a signal to prohibit copying. (Some discs may have this.)
– Since this product is compatible with the copy guard analog copy protect system, the picture may suffer from horizontal stripes or other imperfections when a disc with that kind of protection signal is viewed on some displays. This is not a malfunction.

iPod cannot be operated.

→ The iPod is frozen.
– Reconnect the iPod with the USB interface cable for iPod/iPhone.
– Update the iPod software version.
→ An error has occurred.
– Reconnect the iPod with the USB interface cable for iPod/iPhone.
– Park your vehicle in a safe place, and then turn off the ignition switch (ACC OFF). Subsequently, turn the ignition switch to on (ACC ON) again.
– Update the iPod software version.
→ Cables are not connected correctly.
– Connect the cables correctly.

Sound from the iPod cannot be heard.

→ The audio output direction may switch automatically when the Bluetooth and USB connections are used at the same time.
– Use the iPod to change the audio output direction.

No back camera image when the vehicle is in reverse.

→ The back camera input setting on the receiver is set to Off.
– Change the back camera setting to On in the settings menu. (Refer to the System Settings section of this manual to adjust.)

→ The camera input may be loose or not connected.
– Check the connection and make sure the male end of the camera is connected to the brown input on the back of the receiver. (Refer to the installation manual.)
→ The reverse lead on the receiver may not be connected to the proper wire at the reverse lamp.
– Check the connection and make sure that the violet/white lead of the receiver is connected to the lead whose voltage changes when the shift lever is put in reverese. (Refer to the installation manual.)

Black screen displayed when the vehicle is in reverse, with no camera installed.
→ Back camera input is set to On.
– Turn the setting to Off in the settings menu. (Refer to the System Settings section of this manual to adjust.)

Back image displayed when vehicle is not in reverse.
→ The camera polarity is not set properly in the Camera settings menu.
– Review System Settings section of this manual for steps to switch the camera polarity. Park in a safe place, then while keeping your foot firmly on the brake, put the vehicle in reverse, access the System Settings menu, and change the camera polarity setting. Put vehicle back in park. (Refer to the System Settings section of this manual to adjust.)

Problems with the phone screen

Dialing is impossible because the touch panel keys for dialing are inactive.
→ Your phone is out of range for service.
– Retry after re-entering the range for service.
→ The connection between the cellular phone and this product cannot be established.
– Perform the connection process.
→ Of the two cellular phones connected to this product at the same time, if the first phone is dialing, ringing or a call is in progress, dialing cannot be performed on the second phone.
– When the operation on the first of the two cellular phones is completed, use the switch devices key to switch to the second phone and then dial.

Problems with Application screen

A black screen is displayed.
→ While operating an application, the application was ended on the smartphone side.
– Press ⁘ to display the top menu screen.
→ The smartphone OS may be awaiting screen operation.
– Stop the vehicle in a safe place and check the screen on the smartphone.

The screen is displayed, but operation does not work at all.
→ An error has occurred.
– Park your vehicle in a safe place, and then turn off the ignition switch (ACC OFF). Subsequently, turn the ignition switch to on (ACC ON) again.
– When an Android device is connected, disconnect the Bluetooth connection from this product and then reconnect it.

The smartphone was not charged.
→ Charging stopped because the temperature of the smartphone rose due to prolonged use of the smartphone during charging.

– Disconnect the smartphone from the cable, and wait until the smartphone cools down.

→ More battery power was consumed than was gained from charging.
– This problem may be resolved by stopping any unnecessary services on the smartphone.

Sound from AppRadio Mode + of the Android device cannot be heard from the speakers of this unit.

→ Depending on the Android device, the sound from AppRadio Mode + may not be output from the speakers of this unit.
– Switch to [Smartphone] in the [AppRadio Mode Sound] settings (page 89).

Error messages

When problems occur with this product, an error message appears on the display. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, record the error message and contact your dealer or your nearest Pioneer service center.

Common

AMP Error

→ This product fails to operate or the speaker connection is incorrect; the protective circuit is activated.
– Check the speaker connection. If the message fails to disappear even after the engine is switched off/on, contact your dealer or an authorized Pioneer Service Station for assistance.

Pandora

Error-19

(Communication error occurred.)

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

Our content licenses limit the number of tracks you may skip.

→ Skip limit reached.
– Do not exceed the skip limit.
– Pandora limits the total number of skips per hour.

Log in error

→ You are not logged in to the Pandora application.
– Please log in to the Pandora application.

Check USB

→ The USB connector or USB cable has short-circuited.
– Check that the USB connector or USB cable is not caught in something or damaged.

→ The connected USB storage device consumes more than maximum allowable current.
– Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB storage device.

Poor network connection. Listening will resume when it's restored.

→ The Pandora application is accessed/relocated from outside the licensing region.
– Access Pandora from within the licensing region.

Spotify

Skip limit reached.
→ Skip limit reached.
– Do not exceed the skip limit.
– Spotify limits the total number of skips per hour.

Check USB
→ The USB connector or USB cable has short-circuited.
– Check that the USB connector or USB cable is not caught in something or damaged.
→ The connected USB storage device consumes more than maximum allowable current.
– Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB storage device.

No Spotify
→ The Spotify application is not installed in the connected device.
– Install the Spotify application in your mobile device.

Update App
→ The Spotify application is out of date.
– Update to the latest Spotify application.

Login Please
→ You are not logged in to the Spotify application.
– Please log in to the Spotify application.

No Signal
→ The connected device is out of area.
– Connect the device to a network.

SiriusXM® Satellite Radio

Check Antenna
→ The antenna connection is incorrect.
– Check the antenna connection. If the message fails to disappear even after the engine is switched off/on, contact your dealer or the nearest authorized Pioneer service center for assistance.

Check Tuner
→ The SiriusXM Connect Vehicle Tuner connection is incorrect.
– Check the tuner connection and battery voltage. If the message fails to disappear even after the engine is switched off/on, contact your dealer or the nearest authorized Pioneer service center for assistance.

No Signal
→ The SiriusXM Connect Vehicle Tuner is having difficulty receiving the SiriusXM satellite signal.
– Verify that your vehicle is outdoors with a clear view of the southern sky.
– Verify that the SiriusXM magnetic mount antenna is mounted on a metal surface on the outside of the vehicle.
– Move the SiriusXM antenna away from any obstructions.

No Content
→ TuneScan™ is not available.
– Perform the operation with another preset channel.

Channel Not Available
→ The channel that you have requested is not a valid SiriusXM channel.
– Visit www.siriusxm.com for more information about the SiriusXM channel lineup.

Subscription Updated Press Enter to Continue

→ This product has detected a change in your SiriusXM subscription status.
– Touch [Enter] to clear the message. In the U.S.A., visit www.siriusxm.com or call 1-866-635-2349 if you have questions about your subscription. In Canada, visit www.siriusxm.ca or call 1-877-438-9677 if you have questions about your subscription.

Channel Not Subscribed. Call SiriusXM to Subscribe.

→ The channel that you have requested is not included in your SiriusXM subscription package.
– Check the content of your SiriusXM subscription package. In the U.S.A., visit www.siriusxm.com or call 1-866-635-2349 if you have questions about your subscription package or would like to subscribe to this channel. In Canada, visit www.siriusxm.ca or call 1-877-438-9677.

Channel Locked Please Enter the Lock Code

→ Locked by the radio Parental Control feature.
– Release the channel lock.

Memory Full

→ The memory has become full while playback was paused.
– Resume playback.

Memory Nearly Full

→ The memory has become nearly full while playback was paused.
– Resume playback.

There are no qualified TuneMix music

→ There are no qualified TuneMix channels in this band.
– Requires two or more qualified music channels to be stored as presets in the current band.

Disc

Error-02-XX/FF-FF

→ The disc is dirty.
– Clean the disc.
→ The disc is scratched.
– Replace the disc.
→ The disc is loaded upside down.
– Check that the disc is loaded correctly.
→ There is an electrical or mechanical error.
– Press the RESET button.

Different Region Disc

→ The disc does not have the same region number as this product.
– Replace the DVD with one bearing the correct region number.

Unplayable Disc

→ This type of disc cannot be played on this product.
– Replace the disc with one that can be played on this product.

Unplayable File

→ This type of file cannot be played on this product.
– Select a file that can be played.

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.

TEMP

→ The temperature of this product is outside the normal operating range.

– Wait until this product returns to a temperature within the normal operating limits.

Your device is not authorized to play this DivX protected video.
→ This product's DivX registration code has not been authorized by the DivX VOD contents provider.

Video frame rate not supported
→ DivX file's frame rate is more than 30 fps.
– Select a file that can be played.

Audio Format not supported
→ This type of file is not supported on this product.
– Select a file that can be played.

USB storage device

Error-02-9X/-DX
→ Communication failed.
– Turn the ignition switch OFF and back ON.
– Disconnect the USB storage device.
– Change to a different source. Then, return to the USB storage device.

Unplayable File
→ There is no playable file in the USB storage device.
– Check that the files in the USB storage device are compatible with this product.
→ Security for the connected USB storage device is enabled.
– Follow the USB storage device instructions to disable security.

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

Protect
→ All the files on the connected USB storage device are embedded with DRM.
– Replace the USB storage device.

Incompatible USB
→ The connected USB storage device is not supported by this product.
– Disconnect your device and replace it with a compatible USB storage device.

Check USB
→ The USB connector or USB cable has short-circuited.
– Check that the USB connector or USB cable is not caught in something or damaged.
→ The connected USB storage device consumes more than maximum allowable current.
– Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB storage device.

HUB Error
→ The connected USB hub is not supported by this product.
– Directly connect the USB storage device to this product.

No Response
→ This product cannot recognize the connected USB storage device.
– Disconnect the device and replace it with another USB storage device.

USB was disconnected for device protection. Do not re-insert this USB memory into the unit. Please restart the unit.
→ The USB connector or USB cable has short-circuited.

– Check that the USB connector or USB cable is not caught in something or damaged.

→ The connected USB storage device consumes more than maximum allowable current.
– Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB storage device.

→ The USB interface cable for iPod/iPhone has short-circuited.
– Confirm that the USB interface cable for iPod/iPhone or USB cable is not caught in something or damaged.

Your device is not authorized to play this DivX protected video.

→ This product's DivX registration code has not been authorized by the DivX VOD contents provider.

Audio Format not supported

→ This type of file is not supported on this product.
– Select a file that can be played.

iPod

Error-02-6X/-9X/-DX

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

Error-02-67

→ The iPod firmware version is old.
– Update the iPod version.

Bluetooth

Error-10

→ The power failed for the Bluetooth module of this product.
– Turn the ignition switch to OFF and then to ON.

If the error message is still displayed after performing the above action, please contact your dealer or an authorized Pioneer Service Station.

Handling and care of discs

Some basic precautions are necessary when handling your discs.

Built-in drive and care

- Use only conventional, fully circular discs. Do not use shaped discs.
- Do not use cracked, chipped, warped, or otherwise damaged discs as they may damage the built-in drive.
- Use 12-cm discs. Do not use 8-cm discs or an adapter for 8-cm discs.
- 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 labels, write on or apply chemicals to the surface of the discs.
- Do not attach commercially available labels or other materials to the discs.
- To clean a disc, wipe it with a soft cloth, moving outward from the center.
- Condensation may temporarily impair the built-in drive's performance.
- Playback of discs may not be possible because of disc characteristics, disc format, recorded application, playback environment, storage conditions and so on.
- Road shocks may interrupt disc playback.
- Read the precautions for discs before using them.

Ambient conditions for playing a disc

- At extremely high temperatures, a temperature cutout protects this product by switching it off automatically.
- Despite our careful design of the product, small scratches that do not affect actual operation may appear on the disc surface as a result of mechanical wear, ambient conditions for use or handling of the disc. This is not a sign of the malfunction of this product. Consider it to be normal wear and tear.

Playable discs

DVD-Video

- DVD is a trademark of DVD Format/Logo Licensing Corporation.
- It is not possible to play DVD Audio discs. This DVD drive may not be able to play all discs bearing the marks shown above.

CD

AVCHD recorded discs

This unit is not compatible with discs recorded in AVCHD (Advanced Video Codec High Definition) format. Do not insert in AVCHD discs. If inserted, the disc may not be ejected.

Playing DualDisc

- DualDiscs are two-sided discs that have a recordable CD for audio on one side and a recordable DVD for video on the other.
- Playback of the DVD side is possible with this product. However, since the CD side of DualDiscs is not physically compatible with the general CD standard, it may not be possible to play the CD side with this product.
- Frequent loading and ejecting of a DualDisc may result in scratches to the disc.
- Serious scratches can lead to playback problems on this product. In some cases, a DualDisc may become stuck in the disc-loading slot and will not eject. To prevent this, we recommend you refrain from using DualDisc with this product.
- Please refer to the manufacturer for more detailed information about DualDiscs.

Dolby Digital

This product will down-mix Dolby Digital signals internally and the sound will be output in stereo.

- Manufactured under license from Dolby Laboratories. Dolby, Dolby Audio and the double-D symbol are trademarks of Dolby Laboratories.

Detailed information for playable media

Compatibility

Common notes about disc compatibility

- Certain functions of this product may not be available for some discs.
- Compatibility with all discs is not guaranteed.
- It is not possible to play DVD-RAM discs.
- Playback of discs may become impossible with direct exposure to sunlight, high temperatures, or depending on the storage conditions in the vehicle.

DVD-Video discs

- DVD-Video discs that have incompatible region numbers cannot be played on this DVD drive. The region number of the player can be found on this product's chassis.

DVD-R/DVD-RW/DVD-R SL (Single Layer)/DVD-R DL (Dual Layer) discs

- Unfinalized discs which have been recorded with the Video format (video mode) cannot be played back.
- Discs which have been recorded with the Video Recording format (VR mode) cannot be played back.
- DVD-R DL (Dual Layer) discs which have been recorded with Layer Jump recording cannot be played back.
- For detailed information about recording mode, please contact the manufacturer of media, recorders, or writing software.

CD-R/CD-RW discs

- Unfinalized discs cannot be played back.
- It may not be possible to playback CD-R/CD-RW discs recorded on a music CD recorder or a computer because of disc characteristics, scratches or dirt on the disc, or dirt, scratches or condensation on the lens of the built-in drive.
- Playback of discs recorded on a computer may not be possible, depending on the recording device, writing software, their settings, and other environmental factors.
- Please record with the correct format. (For details, please contact manufacturer of media, recorders, or writing software.)
- Titles and other text information recorded on a CD-R/CD-RW disc may not be displayed by this product (in the case of audio data (CD-DA)).
- Read the precautions with CD-R/CD-RW discs before using them.

Common notes about the USB storage device

- Do not leave the USB storage device in any location with high temperatures.
- Depending on the kind of the USB storage device you use, this product may not recognize the storage device or files may not be played back properly.
- The text information of some audio and video files may not be correctly displayed.
- File extensions must be used properly.
- There may be a slight delay when starting playback of files on an USB storage device with complex folder hierarchies.
- Operations may vary depending on the kind of an USB storage device.
- It may not be possible to play some music files from USB because of file characteristics, file format, recorded application, playback environment, storage conditions, and so on.

USB storage device compatibility

- For details about USB storage device compatibility with this product, refer to Specifications (page 136).
- Protocol: bulk

- You cannot connect a USB storage device to this product via a USB hub.
- Partitioned USB storage device is not compatible with this product.
- Firmly secure the USB storage device when driving. Do not let the USB storage device fall onto the floor, where it may become jammed under the brake or gas pedal.
- There may be a slight delay when starting playback of audio files encoded with image data.
- Some USB storage devices connected to this product may generate noise on the radio.
- Do not connect anything other than the USB storage device.

The sequence of audio files on USB storage device.
For USB storage device, the sequence is different from that of USB storage device.

Handling guidelines and supplemental information

- This product is not compatible with the Multi Media Card (MMC).
- Copyright protected files cannot be played back.

Common notes about DivX files

Notes specific to DivX files

- Only DivX files downloaded from DivX partner sites are guaranteed for proper operation. Unauthorized DivX files may not operate properly.
- This product corresponds to a DivX file display of up to 1 590 minutes 43 seconds. Search operations beyond this time limit are prohibited.
- For details on the DivX video versions that can be played on this product, refer to Specifications (page 136).
- For more details about DivX, visit the following site: http://www.divx.com/

DivX subtitle files

- Srt format subtitle files with the extension ".srt" can be used.
- Only one subtitle file can be used for each DivX file. Multiple subtitle files cannot be associated.
- Subtitle files that are named with the same character string as the DivX file before the extension are associated with the DivX file. The character strings before the extension must be exactly the same. However, if there is only one DivX file and one subtitle file in a single folder, the files are associated even if the file names are not the same.
- The subtitle file must be stored in the same folder as the DivX file.
- Up to 255 subtitle files may be used. Any more subtitle files will not be recognized.
- Up to 64 characters can be used for the name of the subtitle file, including the extension. If more than 64 characters are used for the file name, the subtitle file may not be recognized.
- The character code for the subtitle file should comply with ISO-8859-1. Using characters other than ISO-8859-1 may cause the characters to be displayed incorrectly.
- The subtitles may not be displayed correctly if the displayed characters in the subtitle file include control code.
- For materials that use a high transfer rate, the subtitles and video may not be completely synchronized.
- If multiple subtitles are programmed to display within a very short time frame, such as 0.1 seconds, the subtitles may not be displayed at the correct time.

Media compatibility chart

General

- Maximum playback time of audio file stored in the disc: 60 h

- Maximum playback time of audio file stored on an USB storage device: 7.5 h (450 minutes)

CD-R/-RW

File system: ISO 9660 level 1 and level 2, Romeo, Joliet
Maximum number of directory: No limit
Maximum number of folders: 700
Maximum number of files: 999
Playable file types: MP3, WMA, AAC, DivX, MPEG1, MPEG2, MPEG4

DVD-R/-R SL/-R DL/DVD-RW

File system: ISO 9660 level 1 and level 2, Romeo, Joliet
Maximum number of folders: 700
Maximum number of files: 3 500
Playable file types: MP3, WMA, AAC, DivX, MPEG1, MPEG2, MPEG4

USB storage device

File system: FAT16/FAT32/NTFS
Maximum number of directory: 8
Maximum number of folders: 1 500
Maximum number of files: 15 000
Playable file types: MP3, WMA, AAC, WAV, FLAC, DivX, H.264, H.263, MPEG-2, MPEG-4, VC-1, FLV, MKV, JPEG, PNG, BMP

MP3 compatibility

- Ver. 2.x of ID3 tag is prioritized when both Ver. 1.x and Ver. 2.x exist.
- This product is not compatible with the following: MP3i (MP3 interactive), mp3 PRO, m3u playlist

CD-R/-RW, DVD-R/-R SL/-R DL/DVD-RW

File extension: .mp3
Bit rate: 8 kbps to 320 kbps (CBR), VBR
Sampling frequency: 16 kHz to 48 kHz
ID3 tag: ID3 tag Ver. 1.0, 1.1, 2.2, 2.3

USB storage device

File extension: .mp3
Bit rate: 8 kbps to 320 kbps (CBR), VBR
Sampling frequency: 8 kHz to 48 kHz
ID3 tag: ID3 tag Ver. 1.0, 1.1, 2.2, 2.3, 2.4

WMA compatibility

- This product is not compatible with the following: Windows Media™ Audio 9.2 Professional, Lossless, Voice

CD-R/-RW, DVD-R/-R SL/-R DL/DVD-RW

File extension: .wma
Bit rate: 5 kbps to 320 kbps (CBR), VBR
Sampling frequency: 8 kHz to 48 kHz

USB storage device

File extension: .wma
Bit rate: 8 kbps to 320 kbps (CBR), VBR
Sampling frequency: 32 kHz to 48 kHz

WAV compatibility

- The sampling frequency shown in the display may be rounded.
- WAV files on the CD-R/-RW, DVD-R/-RW/-R SL/-R DL cannot be played.

USB storage device

File extension: .wav
Format: Linear PCM (LPCM)
Sampling frequency: 16 kHz to 48 kHz

AAC compatibility

- This product plays back AAC files encoded by iTunes.

CD-R/-RW, DVD-R/-R SL/-R DL/DVD-RW

File extension: .m4a
Bit rate: 8 kbps to 320 kbps (CBR)
Sampling frequency: 11.025 kHz to 48 kHz

USB storage device

File extension: .m4a
Bit rate: 16 kbps to 320 kbps (CBR)
Sampling frequency: 8 kHz to 48 kHz

FLAC compatibility

USB storage device

File extension: .flac
Sampling frequency: 8 kHz to 192 kHz

DivX compatibility

- This product is not compatible with the following: DivX Ultra format, DivX files

without video data, DivX files encoded with LPCM (Linear PCM) audio codec
- Depending on the file information composition, such as the number of audio streams, there may be a slight delay in the start of playback on discs.
- If a file contains more than 4 GB, playback stops before the end.
- Some special operations may be prohibited because of the composition of DivX files.
- Files with high transfer rates may not be played back correctly. The standard transfer rate is 4 Mbps for CDs and 10.08 Mbps for DVDs.

CD-R/-RW, DVD-R/-R SL/-R DL/DVD-RW

File extension: .avi/.divx
Profile (DivX version): Home Theater Profile
Maximum image size: 720 pixels × 576 pixels

Video files compatibility (USB)

- Files may not be played back properly depending on the environment in which the file was created or on the contents of the file.
- This product is not compatible with packet write data transfer.
- This product can recognize up to 32 characters, beginning with the first character, including extension for the file and folder name. Depending on the display area, this product may try to display them with a reduced font size. However, the maximum number of the characters that you can display varies according to the width of each character, and of the display area.
- Folder selection sequence or other operations may be altered, depending on the encoding or writing software.
- Regardless of the length of blank section between the songs of original recording, compressed audio discs play with a short pause between songs.

.avi

Format: MPEG-4/DivX/H.264/H.263
Compatible video codec: MPEG-4 (Simple Profile/Advanced Simple Profile)/DivX (Home Theater Profile)/H.264 (Base Line Profile/Main Profile/High Profile)/H.263 (Baseline Profile 0/3)
Maximum resolution: 1 920 pixels × 1 080 pixels (MPEG-4/H.264/H.263)
Maximum resolution: 720 pixels × 576 pixels (DivX)
Maximum frame rate: 30 fps
- Files may not be able to be played back depending on the bit rate.

.mp4

Format: MPEG-4/H.264/H.263
Compatible video codec: MPEG-4 (Simple Profile/Advanced Simple Profile)/H.264 (Base Line Profile/Main Profile/High Profile)/H.263 (Baseline Profile 0/3)
Maximum resolution: 1 920 pixels × 1 080 pixels
Maximum frame rate: 30 fps
- Files may not be able to be played back depending on the bit rate.

.3gp

Format: H.263
Compatible video codec: H.263 (Baseline Profile 0/3)
Maximum resolution: 1 920 pixels × 1 080 pixels
Maximum frame rate: 30 fps
- Files may not be able to be played back depending on the bit rate.

.mkv

Format: MPEG-4/H.264/VC-1
Compatible video codec: MPEG-4 (Simple Profile/Advanced Simple Profile)/H.264 (Base Line Profile/Main Profile/High Profile)/VC-1 (Simple Profile/Main Profile/Advanced Profile)
Maximum resolution: 1 920 pixels × 1 080 pixels
Maximum frame rate: 30 fps

- Files may not be able to be played back depending on the bit rate.

.mov

Format: MPEG-4/H.264/H.263
Compatible video codec: MPEG-4 (Simple Profile/Advanced Simple Profile)/H.264 (Base Line Profile/Main Profile/High Profile)/H.263 (Baseline Profile 0/3)
Maximum resolution: 1 920 pixels × 1 080 pixels
Maximum frame rate: 30 fps
- Files may not be able to be played back depending on the bit rate.

.flv

Format: H.264
Compatible video codec: H.264 (Baseline Profile/Main Profile/High Profile)
Maximum resolution: 1 920 pixels × 1 080 pixels
Maximum frame rate: 30 fps
- Files may not be able to be played back depending on the bit rate.

.m4v

Format: MPEG-4/H.264/H.263
Compatible video codec: MPEG-4 (Simple Profile/Advanced Simple Profile)/H.264 (Base Line Profile/Main Profile/High Profile)/H.263 (Baseline Profile 0/3)
Maximum resolution: 1 920 pixels × 1 080 pixels
Maximum frame rate: 30 fps
- Files may not be able to be played back depending on the bit rate.

.asf

Format: VC-1
Compatible video codec: VC-1 (Simple Profile/Main Profile/Advanced Profile)
Maximum resolution: 1 920 pixels × 1 080 pixels
Maximum frame rate: 30 fps
- Files may not be able to be played back depending on the bit rate.

.wmv

Format: VC-1
Compatible video codec: VC-1 (Simple Profile/Main Profile/Advanced Profile)
Maximum resolution: 1 920 pixels × 1 080 pixels
Maximum frame rate: 30 fps
- Files may not be able to be played back depending on the bit rate.

.divx

Format: DivX
Compatible video codec: DivX (Home Theater Profile)
Maximum resolution: 720 pixels × 576 pixels
Maximum frame rate: 30 fps
- Files may not be able to be played back depending on the bit rate.

Example of a hierarchy

NOTE

This product assigns folder numbers. The user cannot assign folder numbers.

Bluetooth

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WMA

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FLAC

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DivX

DivX® Home Theater Certified devices have been tested for high-quality DivX Home Theater video playback (including .avi, .divx). When you see the DivX logo, you know you have the freedom to play your favorite videos.
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This DivX Certified® device can play DivX® Home Theater video files up to 576p (including .avi, .divx).
Download free software at www.divx.com to create, play and stream digital video.

AAC

AAC is short for Advanced Audio Coding and refers to an audio compression technology standard used with MPEG-2 and MPEG-4. Several applications can be used to encode AAC files, but file formats and extensions differ depending on the application which is used to encode. This unit plays back AAC files encoded by iTunes.

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MIXTRAX

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Detailed information regarding connected iPod devices

- Pioneer accepts no responsibility for data lost from an iPod, even if that data is lost while using this product. Please back up your iPod data regularly.
- Do not leave the iPod in direct sunlight for extended amounts of time. Extended exposure to direct sunlight can result in iPod malfunction due to the resulting high temperature.
- Do not leave the iPod in any location 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 gas pedal.
- For details, refer to the iPod manuals.

iPhone, iPod and Lightning

Made for
iPhone | iPod

Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge, 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.
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iOS

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iTunes

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

Apple Music

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

Siri

Works with Siri through the microphone.

Using app-based connected content

Important

Requirements to access app-based connected content services using this product:

- Latest version of the Pioneer compatible connected content application(s) for the smartphone, available from the service provider, downloaded to your smartphone.
- A current account with the content service provider.
- Smartphone Data Plan.
  Note: if the Data Plan for your smartphone does not provide for unlimited data usage, additional charges from your carrier may apply for accessing app-based connected content via 3G, EDGE and/or LTE (4G) networks.
- Connection to the Internet via 3G, EDGE, LTE (4G) or Wi-Fi network.
- Optional Pioneer adapter cable connecting your iPhone to this product.

Limitations:

- Access to app-based connected content will depend on the availability of cellular and/or Wi-Fi network coverage for the purpose of allowing your smartphone to connect to the Internet.
- Service availability may be geographically limited to the region. Consult the connected content service provider for additional information.
- Ability of this product to access connected content is subject to change without notice and could be affected by any of the following: compatibility issues with future firmware versions of smartphone; compatibility issues with future versions of the connected content application(s) for the smartphone; changes to or discontinuation of the connected Content application(s) or service by its provider.

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Notice regarding video viewing

Remember that use of this system for commercial or public viewing purposes may constitute an infringement on the author's rights as protected by the Copyright Law.

Notice regarding DVD-Video viewing

This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.

Notice regarding MP3 file usage

Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e. revenue-generating) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent license for such use is required. For details, please visit http://www.mp3licensing.com.

Using the LCD screen correctly

Handling the LCD screen

- When the LCD screen is subjected to direct sunlight for a long period of time, it will become very hot, resulting in possible damage to the LCD screen. When not using this product, avoid exposing it to direct sunlight as much as possible.
- The LCD screen should be used within the temperature ranges shown in Specifications on page 136.
- Do not use the LCD screen at temperatures higher or lower than the operating temperature range, because the LCD screen may not operate normally and could be damaged.
- The LCD screen is exposed in order to increase its visibility within the vehicle. Please do not press strongly on it as this may damage it.
- Do not push the LCD screen with excessive force as this may scratch it.
- Never touch the LCD screen with anything besides your finger when operating the touch panel functions. The LCD screen can scratch easily.

Liquid crystal display (LCD) screen

- If the LCD screen is near the vent of an air conditioner, make sure that air from the air conditioner is not blowing on it. Heat from the heater may break the LCD screen, and cool air from the cooler may cause moisture to form inside this product, resulting in possible damage.
- Small black dots or white dots (bright dots) may appear on the LCD screen.

These are due to the characteristics of the LCD screen and do not indicate a malfunction.
- The LCD screen will be difficult to see if it is exposed to direct sunlight.
- When using a cellular phone, keep the antenna of the cellular phone away from the LCD screen to prevent disruption of the video in the form of disturbances such as spots or colored stripes.

Maintaining the LCD screen

- When removing dust from or cleaning the LCD screen, first turn this product off and then wipe the screen with a soft dry cloth.
- When wiping the LCD screen, take care not to scratch the surface. Do not use harsh or abrasive chemical cleaners.

LED (light-emitting diode) backlight

A light emitting diode is used inside the display to illuminate the LCD screen.
- At low temperatures, using the LED backlight may increase image lag and degrade the image quality because of the characteristics of the LCD screen. Image quality will improve with an increase in temperature.
- The product lifetime of the LED backlight is more than 10 000 hours. However, it may decrease if used in high temperatures.
- If the LED backlight reaches the end of its product lifetime, the screen will become dimmer and the image will no longer be visible. In that case, please consult your dealer or the nearest authorized Pioneer Service Station.

Specifications

General

Rated 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):
(AVH-2440NEX/AVH-2400NEX)
D
Chassis:
178 mm × 100 mm × 164 mm (7 in. × 3-7/8 in. × 6-1/2 in.)
Nose:
171 mm × 97 mm × 16 mm (6-3/4 in. × 3-7/8 in. × 5/8 in.)
(AVH-1440NEX/AVH-1400NEX)
D
Chassis:
178 mm × 100 mm × 164 mm (7 in. × 3-7/8 in. × 6-1/2 in.)
Nose:
171 mm × 97 mm × 5 mm (6-3/4 in. × 3-7/8 in. × 1/4 in.)
Weight:
(AVH-2440NEX/AVH-2400NEX)
1.8 kg (4.0 lbs)
(AVH-1440NEX/AVH-1400NEX)
1.5 kg (3.3 lbs)

Display

Screen size/aspect ratio:
(AVH-2440NEX/AVH-2400NEX)
6.94 inch wide/16:9 (effective display area: 156.24 mm × 81.605 mm) (6-1/8 in. × 3-1/4 in.)
(AVH-1440NEX/AVH-1400NEX)
6.2 inch wide/16:9 (effective display area: 137.52 mm × 77.232 mm) (5-3/8 in. × 3 in.)
Pixels:
(AVH-2440NEX/AVH-2400NEX)
1 209 600 (2 520 × 480)

(AVH-1440NEX/AVH-1400NEX)
1 152 000 (2 400 × 480)
Display method:
TFT Active matrix driving
Color system:
PAL/NTSC/PAL-M/PAL-N/SECAM compatible
Durable temperature range:
-10 ˚C to +60 ˚C (+14 ˚F to +140 ˚F)
(Power off)

Audio

Maximum power output:
- 50 W × 4 ch/4 Ω
- 50 W × 2 ch/4 Ω + 70 W × 1 ch/2 Ω (for subwoofer)

Continuous power output:
22 W × 4 (50 Hz to 15 kHz, 5 %THD, 4 Ω LOAD, Both Channels Driven)
Load impedance:
4 Ω (4 Ω to 8 Ω [2 Ω for 1 ch] allowable)
Preout output level (max): 4.0 V
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)
<Standard Mode>
HPF:
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/LPF:
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
Gain:
+10 dB to -24 dB (1 dB/step)
Phase: Normal/Reverse
Time alignment:
0 to 140 step (1 inch/step)
Bass boost:
Gain: +12 dB to 0 dB
Speaker level:
+10 dB to -24 dB (1 dB/step)
<Network Mode>
HPF (High):
Frequency:
1.25 kHz/1.6 kHz/2 kHz/2.5 kHz/3.15 kHz/4 kHz/5 kHz/6.3 kHz/8 kHz/10 kHz/12.5 kHz
Slope:
-6 dB/oct, -12 dB/oct, -18 dB/oct, -24 dB/oct
HPF (Mid):
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
LPF (Mid):
Frequency:
1.25 kHz/1.6 kHz/2 kHz/2.5 kHz/3.15 kHz/4 kHz/5 kHz/6.3 kHz/8 kHz/10 kHz/12.5 kHz
Slope:
-6 dB/oct, -12 dB/oct, -18 dB/oct, -24 dB/oct, OFF
Subwoofer:
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
Gain:
+10 dB to -24 dB (1 dB/step)
Phase: Normal/Reverse

Time alignment:
0 to 140 step (1 inch/step)
Bass boost:
Gain: +12 dB to 0 dB
Speaker level:
+10 dB to -24 dB (1 dB/step)

DVD drive

System:
DVD-V, VCD, CD, MP3, WMA, AAC, DivX, MPEG player
Usable discs:
DVD-VIDEO, VIDEO-CD, CD, CD-R, CD-RW, DVD-R, DVD-RW, DVD-R DL
Region number: 1
Signal Format:
Sampling frequency:
8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Number of quantization bits:
16 bit/20 bit/24 bit; linear
Frequency response:
5 Hz to 22 000 Hz (with DVD, at sampling frequency 48 kHz)
Signal-to-noise ratio:
91 dB (1 kHz) (IHF-A network) (RCA level)
Output level:
Video:
1.0 V p-p/75 Ω (±0.2 V)
Number of channels: 2 (stereo)
MP3 decoding format:
MPEG-1 & 2 & 2.5 Audio Layer 3
WMA decoding format:
Ver. 7, 7.1, 8, 9, 9.1, 9.2 (2 ch audio) (Windows Media Player)
AAC decoding format:
MPEG-4 AAC (iTunes encoded only):
.m4a (Ver. 12.5 and earlier)
DivX decoding format:
Home Theater Ver. 3, 4, 5.2, 6 (Except ultra and HD):
.avi, .divx
MPEG video decoding format:
MPEG-1, MPEG-2, MPEG-4 (part2), MS-MPEG-4 (ver. 3)

USB

USB standard spec:
USB 1.1, USB 2.0 full speed, USB 2.0 high speed
Max current supply: 1.5 A
USB Class:
MSC (Mass Storage Class), MTP (Media Transfer Protocol)
File system: FAT16, FAT32, NTFS
<USB audio>
MP3 decoding format:
MPEG-1 & 2 & 2.5 Audio Layer 3
WMA decoding format:
Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio) (Windows Media Player)
AAC decoding format:
MPEG-4 AAC (iTunes encoded only) (Ver. 12.5 and earlier)
FLAC decoding format:
Ver. 1.3.0 (Free Lossless Audio Codec)
WAV signal format (MSC Mode only):
Linear PCM
Sampling frequency:
Linear PCM:
16 kHz/22.05 kHz/24 kHz/32 kHz/44.1 kHz/48 kHz
<USB image>
JPEG decoding format (MSC Mode only):
.jpeg, .jpg, .jpe
Pixel Sampling: 4:2:2, 4:2:0
Decode Size:
MAX: 8 192 (H) × 7 680 (W)
MIN: 32 (H) × 32 (W)
PNG decoding format (MSC Mode only):
.png
Decode Size:
MAX: 720 (H) × 576 (W)
MIN: 32 (H) × 32 (W)
BMP decoding format (MSC Mode only):
.bmp
Decode Size:
MAX: 1 920 (H) × 936 (W)
MIN: 32 (H) × 32 (W)
<USB video>

H.264 video decoding format:
Base Line Profile, Main Profile, High Profile
H.263 video decoding format:
Base Line Profile 0/3
VC-1 video decoding format:
Simple Profile, Main Profile, Advanced Profile
DivX:
Home Theater
MPEG4 video decoding format:
Simple Profile, Advanced Simple Profile
MPEG2 video decoding format:
Main Profile

Bluetooth

Version:
Bluetooth 4.1 certified
Output power:
+4 dBm Max. (Power class 2)
Frequency band:
2 400 MHz to 2 483.5 MHz

FM tuner

Frequency range:
87.9 MHz to 107.9 MHz
Usable sensitivity:
12 dBf (1.1 µV/75 Ω, mono, S/N: 30 dB)
Signal-to-noise ratio:
80 dB (digital broadcasting) (IHF-A network) (AVH-2440NEX/AVH-1440NEX)
72 dB (analog broadcasting) (IHF-A network)

AM tuner

Frequency range:
530 kHz to 1 710 kHz
Usable sensitivity:
28 µV (S/N: 20 dB)
Signal-to-noise ratio:
80 dB (digital broadcasting) (IHF-A network) (AVH-2440NEX/AVH-1440NEX)
62 dB (analog broadcasting) (IHF-A network)

CEA2006 Specifications

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

NOTE

Specifications and design are subject to possible modifications without notice due to improvements.

Register your product at

http://www.pioneerelectronics.com

in Canada **http://www.pioneerelectronics.ca**

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