

Pioneer

DMH-220EX

RDS AV RECEIVER

English

DIVX

 **Bluetooth**

Made for



iPhone | **iPod**

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.

Remote control

The remote control is sold separately.
For details concerning operations, see the remote control manual.

■ Precaution	3
■ Parts and controls	9
■ Basic operation	9
■ Bluetooth.....	12
■ AV source	19
■ Smartphone connection for AV source	20
■ Radio	21
■ Compressed files.....	22
■ iPod®	26
■ AUX	28
■ Settings.....	29

Displaying the setting screen	29
-------------------------------------	----

System settings	29
Theme settings.....	34
Audio settings.....	35
Video settings	37

■ Favorite menu.....	38
■ Other functions	38
■ Appendix	40

Precaution

Information to user

-MODEL NO.: DMH-220EX

FCC ID: AJDK071

IC: 775E-K071

- This device contains licence-exempt transmitter(s)/receiver(s) that complies with Part 15 of FCC Rules and Innovation, Science, and Economic Development Canada licence-exempt RSS(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.
- 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.

FEDERAL COMMUNICATIONS COMMISSION SUPPLIER'S DECLARATION OF CONFORMITY

Product Name: RDS AV RECEIVER

Model Number: DMH-220EX

Responsible Party Name: PIONEER ELECTRONICS (USA), INC. SERVICE SUPPORT DIVISION

Address: 2050 W. 190TH STREET, SUITE 100, TORRANCE, CA 90504, U.S.A.

Phone: 1-800-421-1404

URL: <https://www.pioneerelectronics.com>

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.

⚠ 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:

<https://www.pioneerelectronics.com>

<https://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

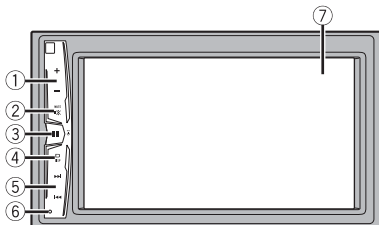
This manual uses diagrams of actual screens to describe operations. However, the screens on some units may not match those shown in this manual depending on the model used.




Meanings of symbols used in this manual

	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



①	VOL (+/-)	
②	MUTE	
③		Press to display the top menu screen. Press and hold to power off. To power back on, press any button. NOTE The  icon appears when the power is on.
④	DISP	Press to turn the display on or off.
⑤		Performs manual seek tuning, fast forwards, reverse and track search controls. Press to answer or end a call.
⑥	RESET	Press to reset the microprocessor (page 9).
⑦	LCD screen	

Basic operation

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.

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 top menu screen appears.







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

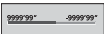
	Switches between playback and pause.
	
	 Skips files (or tracks) forward or backward.
	Performs fast reverse or fast forward. Touch again to change the playback speed.
	Stops playback.

Text information	<p>When all characters are not displayed, the rests are automatically scrolled on the display. The characters are displayed by touching the text information.</p> <p>NOTE This function is available only when you stop your vehicle in a safe place and apply the parking brake.</p>
	<p>Returns to the previous screen.</p>
	<p>Close the screen.</p>

Operating list screens


 abcdefghi	<p>Starts playback the item.</p>
	<p>Appears when all characters are not displayed on the display area. If you touch the key, the rests are scrolled for display.</p> <p>NOTE This function is available only when you stop your vehicle in a safe place and apply the parking brake.</p>
	<p>Appears when items cannot be displayed on a single page. Touch  or  to view any hidden items.</p>

Operating the time bar

	<p>You can change the playback point by dragging the key.</p> <p>NOTE The time bar function may vary depending on the activating source.</p>
--	--


Top menu screen



①	Source icons
	Setting the time and date (page 38)
	Settings (page 29) and Favorite menu (page 38)
	Hands-free phoning (page 15)
	AV source off
	<p>If you select , you can turn off almost all functions.</p> <p>The unit turns on by operating following functions:</p> <ul style="list-style-type: none"> • 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).

Bluetooth

Bluetooth connection

- 1 Turn on the Bluetooth function on the device.
- 2 Press .

- 3** Touch  then .

The Bluetooth menu 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 three devices are already paired, [Memory Full] is displayed. Delete a paired device first (page 14).
- 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.
-  is invalid when the device is already connected, also is invalid during connecting or disconnecting.

TIP

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 14). For details on Bluetooth device operations, refer to the operating instructions supplied with the Bluetooth device.



Bluetooth settings

- 1** Press .

- 2** Touch  then .

⚠ CAUTION

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

Menu Item	Description
[Connection]	<p>Connect, disconnect, or delete registered Bluetooth device manually.</p> <p>Touch  to delete registered device.</p> <p>To connect a registered Bluetooth device manually, touch the name of the device.</p> <p>To disconnect the device, touch the name of the connected device in the list.</p> <p>NOTE</p> <p>Connect the Bluetooth device manually in the following cases:</p> <ul style="list-style-type: none"> 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.
[Visibility] [On] [Off]	Select [On] to make this product visible to the other device.
[PIN Code Input]	<p>Change the PIN code for Bluetooth connection.</p> <p>The default PIN code is "0000".</p> <p>1 Touch [0] to [9] to input the pin code (up to 8 digits).</p> <p>2 Touch .</p>
[Device Information]	Displaying the device name and address of this product.
[Bluetooth Memory Clear]	Touch [Clear] then [OK] to clear the Bluetooth memory.
[BT Software Update]	<p>Updates the Bluetooth software version by connecting the external memory.</p> <p>TIP</p> <p>This function is available when the source is off.</p>
[BT Version Info]	Displaying the Bluetooth version.

Switching the connected Bluetooth device

You can switch among the connected Bluetooth devices using the switch devices key in the Bluetooth menu.

- You can register up to three Bluetooth devices on this product (page 12).
- The Bluetooth audio player can be switched to other Bluetooth devices on the Bluetooth audio playback screen.
- Only one device can be connected as a hands-free phoning.

Hands-free phoning











To use this function you need to connect your cellular phone to this product via Bluetooth in advance (page 12).

CAUTION

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

Making a phone call

- 1 Press , then touch .
The phone menu screen appears.
- 2 Touch one of the call icons on the phone menu screen.

	<p>The following items are displayed.</p> <ul style="list-style-type: none"> • 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
	<p>Initial searches the phone book.</p> <p>Each time you press the button, English and system language may switch depending on the system language setting. Touch the list area to stop initial search.</p>
	<p>Using preset dial list (page 16)</p>
	<p>Using phone book</p> <p>Select a contact from the phone book. Touch the desired name on the list then select the phone number.</p> <p>TIPS</p> <ul style="list-style-type: none"> • The contacts on your phone will be automatically transferred to this product. • Update the phone book manually.
	<p>Using call history</p> <p>Make a phone call from the received call , dialed call , or missed call .</p>
	<p>Direct phone number input</p> <p>Enter the number keys to enter the phone number then touch  to make a call.</p>



► 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 , then touch .

2 Touch  or .

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

3 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 , then touch .

2 Touch  then .



3 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.

Phone settings



1 Press , then touch  and .

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.

Menu Item	Description
[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  or  to turn private mode on or off.

Adjusting the other party's listening volume

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

- 1 Touch  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 12).

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 [Bluetooth Audio].

The Bluetooth audio playback screen appears.

Description of Bluetooth audio playback screen

	Track number indicator
	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 14).

AV source

Supported AV source

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



- Radio
- USB

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


- iPod
- Bluetooth® audio
- AUX

Selecting a source

Source on the AV source selection screen

- 1 Press .
- 2 Touch the source icon.
When you select , the AV source is turned off.

Source on the source list

- 1 Touch  on the AV Source screen.
- 2 Touch the source key.
When you select [Source OFF], the AV source is turned off.

Smartphone connection for AV source

When using a smartphone with this product, the settings are automatically configured according to the device to be connected.

NOTES

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

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 20)


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.

- Bluetooth audio

- 1 Connect a smartphone with this product via Bluetooth (page 12).
- 2 Press .
- 3 Touch compatible desired source.





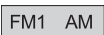




Radio

Starting procedure

- 1 Press .
- 2 Touch [Radio].
The Radio screen appears.

Basic operation

Description of Radio screen

	 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.
	Selects the FM1, FM2, FM3, or AM band.
	Performs BSM (best stations memory) function (page 21).
	 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.

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  to begin search.

While searching, 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 .
- 3 Touch [AV Source Settings].
- 4 Touch [Radio settings].

The menu items vary according to the source.

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 The FM [Level4] (AM [Level2]) setting allows reception of only stations with the strongest signals.

Compressed files

Plugging/unplugging a USB storage device

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

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.

TIP

Connect the USB cable to the USB port on the rear panel of this product.

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.

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

- 1 Plug the USB storage device into the USB cable (page 22).

TIP

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

Basic operation

TIP

You can set the screen size for the video and image files (page 39).







Audio source

Description of Audio source screen

TIP

When you touch text information, all information is displayed by scrolling only when the parking brake is applied.

	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.

	<p>Switches the following media file types.</p> <p>[Music]: Compressed audio files</p> <p>[Video]: Compressed video files</p> <p>[Photo]: Image files</p>
	<p>Selects a file from the list.</p> <p>Touch a file on the list to playback.</p> <p>TIP</p> <p>Touching a folder on the list shows its contents. You can play a file on the list by touching it.</p>
	<p>When you touch the memory select icon while connecting an Android device, it switches between internal memory and external memory.</p>
 	<p>Selects the previous folder or the next folder.</p>
	<p>Switches the current music information display.</p>

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.

Description of Video source screen

TIP

Touch anywhere on the screen, the touch panel keys appear.

	<p> Performs frame-by-frame playback.</p>
	<p> Performs slow-motion playback.</p>
	<p>Sets a repeat play range for all files/the current folder/the current file.</p>
 	<p>Switches the audio/subtitle language.</p>










	<p>Switches the following media file types.</p> <p>[Music]: Compressed audio files [Video]: Compressed video files [Photo]: Image files</p>
	<p>Selects a file from the list. Touch a file on the list to playback.</p> <p>TIP Touching a folder on the list shows its contents. You can play a file on the list by touching it.</p>

Still image source

Description of Still image screen

TIP

Touch anywhere on the screen, the touch panel keys appear.

 	<p>Selects the previous folder or the next folder.</p>
	<p>Rotates the displayed picture 90° clockwise.</p>
 	<p>Sets a repeat play range for all files/the current folder.</p>
 	<p>Plays all files in the current repeat play range or does not play them in random order.</p>
	<p>Switches the following media file types.</p> <p>[Music]: Compressed audio files [Video]: Compressed video files [Photo]: Image files</p>
	<p>Selects a file from the list. Touch a file on the list to playback.</p> <p>TIP Touching a folder on the list shows its contents. You can play a file on the list by touching it.</p>

Setup for iPod

When connecting an iPod/iPhone to this product, the settings are automatically configured according to the device to be connected.

iPod/iPhone compatibility

This product supports only the following iPod/iPhone models and iPod software versions. Other may not work correctly.

- iPhone 7
- iPhone 7 Plus
- iPhone SE
- iPhone 6s
- iPhone 6s Plus
- iPhone 6
- iPhone 6 Plus
- iPhone 5s
- iPhone 5c
- iPhone 5
- iPhone 4s
- iPod touch® (6th generation)
- iPod touch (5th generation)
- iPod nano® (7th generation)

Connecting your iPod

The following connections are available.

- iPhone with a 30-pin connector
Connecting via CD-IU51 (sold separately)
- iPod/iPhone with a Lightning connector
Connecting via CD-IU52 (sold separately)

For details of connection, refer to the Installation Manual.

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/iPhone.

2 Press .







Basic operation

Audio source

Description of Audio source screen

TIP

When you touch text information, all information is displayed by scrolling only when the parking brake is applied.

 	Sets a repeat play range for all in the selected list/the current song.
 	Plays songs within the selected list/album randomly.
	<p>Selects a song from the list. Touch the category then the title of the list to playback of the selected list.</p> <p>NOTE Each time you connect an iPod/iPhone, it will require extra time to access your playlist. If there are 10,000 songs on the iPod/iPhone, it will require almost one hour to populate.</p> <p>TIP When you touch Apple Music Radio station in the list screen, Apple Music Radio screen appears (page 27).</p>
	Changes the audiobook speed.

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, iPhone 4s or iPod touch (5th and 6th generation).

Description of Apple Music Radio screen

	<p>Displays the pop-up menu for Apple Music Radio.</p> <ul style="list-style-type: none"> • 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. <p>NOTE</p> <p>This function may not be used depending on your Apple Music account status.</p>
	<p>Select Apple Music Radio station.</p> <p>TIP</p> <p>When you select a song, the audio source screen appears.</p>

AUX

The video image or sound can be played via the device connected to AUX 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 Confirm that [AUX Input] is turned on.
- 4 Press .
- 5 Touch [AUX].
The AUX screen appears.

Basic operation

Description of AUX screen

TIPS

- Touch anywhere on the screen, the touch panel keys appear.

- You can set the screen size for the video image (page 39).








Switches between the video input and audio input.

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 29)
-  Theme settings (page 34)
-  Audio settings (page 35)
-  Video settings (page 37)
-  Bluetooth settings (page 13)

System settings

The menu items vary according to the source.

[AV Source Settings]

Menu Item	Description
[Radio Settings]	(page 22)
[Bluetooth Audio] [On] [Off]	Setting Bluetooth audio source activation.

[AUX Input]

Menu Item	Description
[AUX Input] [On] [Off]	Set to [On] for AUX source (page 28).

[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 19).

NOTE

To set the rear view camera as the camera for Camera View mode, set [Back Camera Input] to [On] (page 30).

⚠ 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] [Off] [On]	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].	

[System Language]

Menu Item	Description
[System Language]	<p>Select the system language.</p> <p>NOTES</p> <ul style="list-style-type: none"> • 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
[Restore Settings]	<p>Touch [Restore] to restore the settings to the default settings.</p> <p>⚠ CAUTION</p> <p>Do not turn off the engine while restoring the settings.</p> <p>NOTES</p> <ul style="list-style-type: none"> • 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.

[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.

[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]	<ol style="list-style-type: none"> 1 Touch [Yes]. 2 Touch four corners of the screen along the arrows. 3 Press . <p>The adjustment results are saved.</p> <ol style="list-style-type: none"> 4 Press  once again. <p>Proceed to 16-point adjustment.</p> <ol style="list-style-type: none"> 5 Gently touch the center of the [+] mark displayed on the screen. <p>The target indicates the order.</p> <ul style="list-style-type: none"> • When you press , the previous adjustment position returns. • When you press and hold , the adjustment is canceled. <ol style="list-style-type: none"> 6 Press and hold . <p>The adjustment results are saved.</p>

[Dimmer Settings]

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 [Manual] is set to [Dimmer Trigger].
[Day]	Turns the dimmer function to off.
[Night]	Turns the dimmer function to on.

Menu Item	Description
[Dimmer Duration]	<p>Adjust the time that the dimmer is turned on or off by dragging the cursors or touching ◀ or ▶.</p> <p>You can use this function when [Dimmer Trigger] is set to [Time].</p> <p>TIPS</p> <ul style="list-style-type: none"> 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. <p>NOTES</p> <ul style="list-style-type: none"> The time display of the dimmer duration adjusting bar depends on the clock display setting (page 38). This setting is available only when you stop your vehicle in a safe place and apply the parking brake.

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.

* 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 32).
- The picture adjustment may not be available with some rear view cameras.
- The setting contents can be memorized separately.

[USB MTP]

Menu Item	Description
[USB MTP] [On] [Off]	Set to [On] when using the MTP connection.







Theme settings









Menu Item	Description
[Background] [Home] [AV]	Select the wall paper from the preset items in this product. 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.
 (off)	Hides the background display.
[Illumination]*	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  .
 (rainbow)	Shifts gradually between the preset colors in sequence.
[Theme]*	Select the theme color.

* 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 muted.

Menu Item	Description
[Graphic EQ] [S.Bass] [Powerful] [Natural] [Vocal] [Flat] [Custom1] [Custom2]	<p>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.</p> <p>TIPS</p> <ul style="list-style-type: none"> • If you make adjustments when a curve [S.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.
[Fader/Balance]	<p>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.</p> <p>TIP</p> <p>You can also set the value by dragging the point on the displayed table.</p> <p>NOTE</p> <p>Only the fader can be adjusted when [Rear] is selected as the speaker mode.</p>
[Source Level Adjuster] [-4] to [+4]	<p>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.</p> <p>TIP</p> <p>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.</p> <p>NOTES</p> <ul style="list-style-type: none"> • 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]	<p>Select enable or disable subwoofer output from this product.</p>










Menu Item	Description
[Speaker Level] [Front Left] [Front Right] [Rear Left] [Rear Right] [Subwoofer] [Listening Position]	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 For rear speaker, this function is available only when [Rear] is selected in [Rear Speaker Output].
[Crossover]	Select a speaker unit (filter) to adjust the HPF or LPF cutoff frequency and the slope for each speaker unit (page 36).
[Subwoofer Settings]	Select the subwoofer phase, LPF cut-off frequency and the slope (page 36).
[Listening Position] [Off] [Front-L] [Front-R] [Front] [All]	Select a listening position that you want to make as the center of sound effects.
[Time Alignment] [Front Left] [Front Right] [Rear Left] [Rear Right] [Subwoofer] [Listening Position]	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. NOTE This function is available only when the listening position setting is set to [Front Left] or [Front Right].
[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 the source is off.
[Loudness] [Off] [Low] [Mid] [High]	Compensates for deficiencies in the low-frequency and high-frequency ranges at low volume.

Adjusting the cutoff frequency value


You can adjust the cutoff frequency value of each speaker.
 The following speakers can be adjusted:
 Front, Rear, 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 Touch  or  to set the cutoff position.
- 6 Touch  or  to set the cutoff slope.

The following items can also be set.

	Switches the subwoofer phase between normal and reverse position.
LPF/HPF	Switches the LPF/HPF setting to [On] or [Off].



Video settings

The menu items vary according to the source.

[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
[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/removing a shortcut

- 1 Press  then touch .
- 2 Touch .
- 3 To select, touch the menu item.
To remove, touch and hold the favorite menu column.
The selected menu item is removed from the [Favorites] screen.

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.



Screen display mode key

2 Touch the desired mode.

[Full]	Displays 16:9 images on the full screen without changing the ratio. NOTE Video images are enlarged or reduced to fit on the screen, and the original aspect ratio is maintained.
[Zoom]	Displays the images enlarging them vertically.
[Normal]	Video images are reduced horizontally in comparison to [Full] mode. Still images are enlarged or reduced to fit on the screen, and the original aspect ratio is maintained.
[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.
- Enlarged images may appear coarser.

NOTE

Image files can be set to either [Normal] or [Trimming] in wide screen mode.

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 31).

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

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.

The icon  is displayed, and operation is impossible.

- The operation is not compatible with the video configuration.

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 reverse. (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.

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.

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.

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.

iPod

Error-02-6X

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

Error-02-60

- 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.

Detailed information for playable media

Compatibility

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 47).
 - 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 47).
- For more details about DivX, visit the following site: <https://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 on an USB storage device: 7.5 h (450 minutes)

USB storage device

File system: FAT16/FAT32

Maximum number of directory: 8

Maximum number of folders: 300

Maximum number of files: 15 000

Playable file types: MP3, WMA, AAC, WAV, DivX, MPEG-2, MPEG-4, JPEG, 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
- tag information can be displayed with the language set by the system language setting.

USB storage device

File extension: .mp3

Bit rate: 8, 16, 24, 32, 40, 48, 56, 64, 80, 96, 112, 128, 144, 160, 192, 224, 256, 320 kbps (CBR), VBR

Sampling frequency: 16, 22.05, 24, 32, 44.1, 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 Professional, Lossless, Voice

USB storage device

File extension: .wma

Bit rate: 8, 16, 24, 32, 40, 48, 56, 64, 80, 96, 112, 128, 144, 160, 192 kbps (CBR)

Sampling frequency: 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48 kHz

WAV compatibility

- The sampling frequency shown in the display may be rounded.

USB storage device

File extension: .wav

Format: Linear PCM (LPCM)

Bit rate: Approx. 1.5 Mbps

Sampling frequency: 16, 22.05, 24, 32, 44.1, 48 kHz

AAC compatibility

- This product plays back only LC-AAC files encoded by iTunes.

USB storage device

File extension: .aac, .m4a

Bit rate: 8, 16, 24, 32, 40, 48, 56, 64, 80, 96, 112, 128, 144, 160, 192, 224, 256, 320 kbps (CBR), VBR

Sampling frequency: 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48, 64, 88.2, 96 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
- 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.

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.
- Folder selection sequence or other operations may be altered, depending on the encoding or writing software.

.avi

Format: MPEG-4/DivX

Compatible video codec: MPEG4 (part2)/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.

.mpeg/.mpeg

Format: MPEG-1 PS/MPEG-2 PS

Compatible video codec: MPEG-1/MPEG-2

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.

.divx

Format: MPEG-4/DivX

Compatible video codec: MPEG4 (part2)/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

The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by PIONEER CORPORATION is under license. Other trademarks and trade names are those of their respective owners.

WMA

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

- This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from Microsoft Licensing, Inc.

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.

DivX®, DivX Certified® and associated logos are trademarks of DivX, LLC and are used under license.

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 cast digital videos.

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.

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®

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.

iOS

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

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.

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.

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 47.
- 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):

D

Chassis:

178 mm × 100 mm × 159 mm (7 in. × 3-7/8 in. × 6-1/4 in.)

Nose:

171 mm × 97 mm × 5 mm (6-3/4 in. × 3-7/8 in. × 1/4 in.)

Weight:

1.1 kg (2.4 lbs)

Display

Screen size/aspect ratio:

6.2 inch wide/16:9 (effective display area: 137.52 mm × 77.232 mm) (5-3/8 in. × 3 in.)

Pixels:

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): 2.0 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)

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

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)

USB

USB 1.1, USB 2.0 full speed, USB 2.0 high speed

Max current supply: 1.0 A

USB Class:

MSC (Mass Storage Class), MTP (Media Transfer Protocol)

File system: FAT16, FAT32

<USB audio>

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. 10.6 and earlier)

WAV signal format:

Linear PCM : wav

Sampling frequency:

Linear PCM:
16 kHz/22.05 kHz/24 kHz/32 kHz/44.1 kHz/48 kHz

<USB image>

JPEG decoding format:

.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)

BMP decoding format: .bmp

Decode Size:

MAX: 1 920 (H) × 936 (W)

MIN: 32 (H) × 32 (W)

DivX decoding format:

Home Theater (Except ultra and HD) :
.avi, .divx

MPEG video decoding format:

MPEG1 (Low Level), MPEG2 (Main Level),
MPEG4 (part2) (Main Level)

Bluetooth

Version:

Bluetooth 3.0 certified

Output power:

+4 dBm Max. (Power class 2)

Frequency band(s):

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 μ V/75 Ω , mono, S/N: 30 dB)

Signal-to-noise ratio:

72 dB (IHF-A network)

AM tuner

Frequency range:

530 kHz to 1 710 kHz (10 kHz)

Usable sensitivity:

28 μ V (S/N: 20 dB)

Signal-to-noise ratio:

62 dB (IHF-A network)

CTA2006 Specifications



Power output:

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

S/N ratio:

91 dBA (reference: 1 W into 4 Ω)

NOTE

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

Register your product at

<https://www.pioneerelectronics.com>

in Canada **<https://www.pioneerelectronics.ca>**

PIONEER CORPORATION

28-8, Honkomagome 2-chome, Bunkyo-ku,
Tokyo 113-0021, Japan

PIONEER ELECTRONICS (USA) INC.

P.O. Box 1540, Long Beach, California 90801-1540, U.S.A.
TEL: (800) 421-1404

PIONEER EUROPE NV

Haven 1087, Keetberglaan 1, B-9120 Melsele, Belgium/Belgique
TEL: (0) 3/570.05.11

PIONEER ELECTRONICS ASIACENTRE PTE. LTD.

2 Jalan Kilang Barat, #07-01, Singapore 159346
TEL: 65-6378-7888

PIONEER ELECTRONICS AUSTRALIA PTY. LTD.

5 Arco Lane, Heatherton, Victoria, 3202 Australia
TEL: (03) 9586-6300

PIONEER ELECTRONICS DE MÉXICO S.A. DE C.V.

Blvd. Manuel Ávila Camacho 138, 10 piso
Col.Lomas de Chapultepec, México, D.F. 11000
Tel: 52-55-9178-4270, Fax: 52-55-5202-3714

先鋒股份有限公司

台北市內湖區瑞光路407號8樓
電話：886-(0) 2-2657-3588

先鋒電子（香港）有限公司

香港九龍長沙灣道909號5樓
電話：852-2848-6488

Pioneer

DMH-220EX

RDS AV RECEIVER

RADIO AV RDS

RECEPTOR RDS AV

English

Français

Español

Installation Manual Manuel d'installation Manual de instalación

Important safety information

⚠ WARNING

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.

Connection

Precautions

Your new product and this manual

- 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 or reading the display, park your vehicle in a safe location and apply the parking brake before making the necessary adjustments.

- 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 of safety features, including airbags, hazard lamp buttons, or (iii) impair the driver's ability to safely operate the vehicle. In some cases, it may not be possible to install this product because of the vehicle type or the shape of the vehicle interior.

Important safeguards

⚠ WARNING

Pioneer does not recommend that you install this product yourself. This product is designed for professional installation only. We recommend that only authorized Pioneer service personnel, who have special training and experience in mobile electronics, set up and install this product. **NEVER SERVICE THIS PRODUCT YOURSELF.** Installing or servicing this product and its connecting cables may expose you to the risk of electric shock or other hazards, and can cause damage to this product that is not covered by warranty.

Precautions before connecting the system

⚠ WARNING

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.

⚠ CAUTION

- Secure all wiring with cable clamps or electrical tape. Do not allow any bare wiring to remain exposed.
- Do not directly connect the yellow lead of this product to the vehicle battery. If the lead is directly connected to the battery, engine vibration may eventually cause the insulation to fail at the point where the wire passes from the passenger compartment into the engine compartment. If the yellow lead's insulation tears as a result of contact with metal parts, short-circuiting can occur, resulting in considerable danger.

- It is extremely dangerous to allow cables to become wound around the steering column or shift lever. Be sure to install this product, its cables, and wiring away in such so that they will not obstruct or hinder driving.
- Make sure that the cables and wires will not interfere with or become caught in any of the vehicle's moving parts, especially the steering wheel, shift lever, parking brake, sliding seat tracks, doors, or any of the vehicle's controls.
- Do not route wires where they will be exposed to high temperatures. If the insulation heats up, wires may become damaged, resulting in a short circuit or malfunction and permanent damage to the product.
- Do not shorten any leads. If you do, the protection circuit (fuse holder, fuse resistor or filter, etc.) may fail to work properly.
- Never feed power to other electronic products by cutting the insulation of the power supply lead of this product and tapping into the lead. The current capacity of the lead will be exceeded, causing overheating.

Before installing this product

- Use this unit with a 12-volt battery and negative grounding only. Failure to do so may result in a fire or malfunction.
- To avoid shorts in the electrical system, be sure to disconnect the (-) battery cable before installation.

To prevent damage

⚠ WARNING

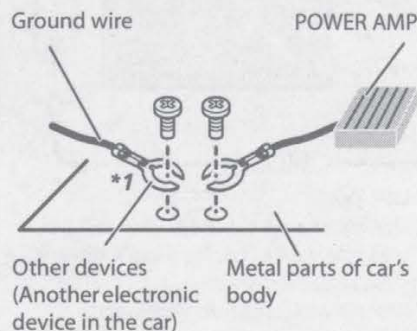
- When speaker output is used by 4 channels, use speakers over 50 W

(Maximum input power) and between 4 Ω to 8 Ω (impedance value). Do not use 1 Ω to 3 Ω speakers for this unit.

- When rear speaker output is used by 2 Ω of subwoofer, use speakers over 70 W (Maximum input power).

*Please refer to connection for a connection method.

- The black cable is ground. When installing this unit or power amp (sold separately), make sure to connect the ground wire first. Ensure that the ground wire is properly connected to metal parts of the car's body. The ground wire of the power amp and the one of this unit or any other device must be connected to the car separately with different screws. If the screw for the ground wire loosens or falls out, it could result in fire generation of smoke or malfunction.



*1 Non supplied for this unit


- When replacing the fuse, be sure to only use a fuse of the rating prescribed on this product.
- This product cannot be installed in a vehicle without ACC (accessory) position on the ignition switch.



ACC position



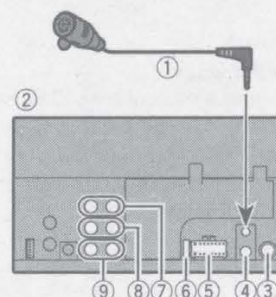
No ACC position

- To avoid short-circuiting, cover the disconnected lead with insulating tape. It is especially important to insulate all unused speaker leads, which if left uncovered may cause a short circuit.
- For connecting a power amp or other devices to this product, refer to the manual for the product to be connected.
- The graphical symbol  placed on the product means direct current.

Notice for the blue/white lead

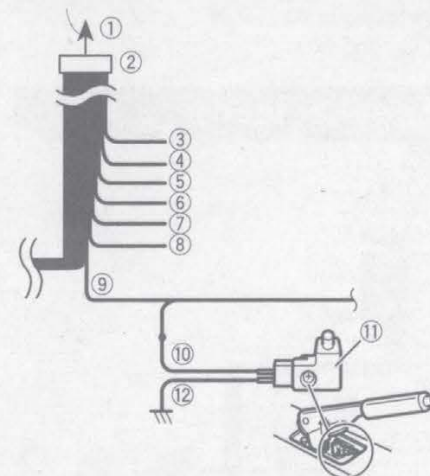
- When the ignition switch is turned on (ACC ON), a control signal is output through the blue/white lead. Connect to an external power amp's system remote control terminal, the auto-antenna relay control terminal, or the antenna booster power control terminal (max. 300 mA 12 V DC). The control signal is output through the blue/white lead, even if the audio source is switched off.

Rear panel



- ① Microphone 3 m (9 ft. 10-1/8 in.)
- ② This product
- ③ Antenna jack
- ④ Wired remote input
Connect to steering wheel control interface of your vehicle. For more details, consult your dealer.
- ⑤ Power supply
- ⑥ Fuse (10 A)
- ⑦ Front output
- ⑧ Rear output
- ⑨ Subwoofer output

Power cord

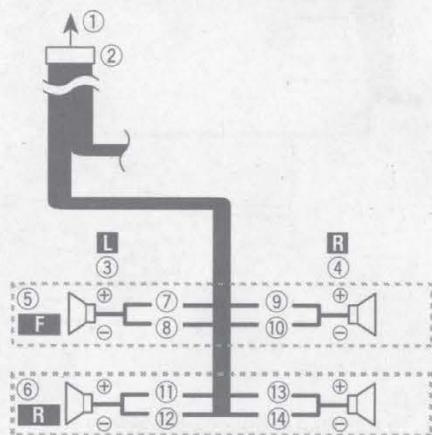


- ① To power supply
- ② Power cord
- ③ Yellow
To terminal supplied with power regardless of ignition switch position.
- ④ Red
To electric terminal controlled by ignition switch (12 V DC) ON/OFF
- ⑤ Orange/white
To lighting switch terminal.
- ⑥ Black (ground)
To vehicle (metal) body.
- ⑦ Violet/white
Of the two lead wires connected to the back lamp, connect the one in which the voltage changes when the gear shift is in the REVERSE (R) position. This connection enables the unit to sense whether the car is moving forward or backward.
- ⑧ Blue/white
Connect to system control terminal of the power amp (max. 300 mA 12 V DC).
- ⑨ Light green
Used to detect the ON/OFF status of the parking brake. This lead must be

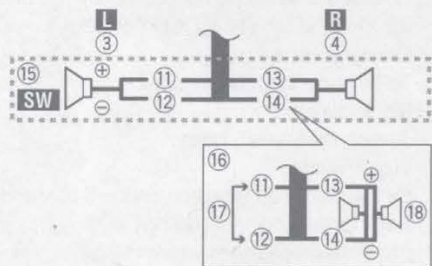
connected to the power supply side of the parking brake switch.

- ⑩ Power supply side
- ⑪ Parking brake switch
- ⑫ Ground side

Speaker leads



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



- ① To power supply
- ② Power cord
- ③ Left
- ④ Right
- ⑤ Front speaker
- ⑥ Rear speaker
- ⑦ White
- ⑧ White/black
- ⑨ Gray

- ⑩ Gray/black
- ⑪ Green
- ⑫ Green/black
- ⑬ Violet
- ⑭ Violet/black
- ⑮ Subwoofer (4 Ω)

⑮ When using a subwoofer of 2 Ω , be sure to connect the subwoofer to the violet and violet/black leads of this unit. Do not connect anything to the green and green/black leads.

- ⑯ Not used.
- ⑰ Subwoofer (4 Ω) \times 2

NOTES

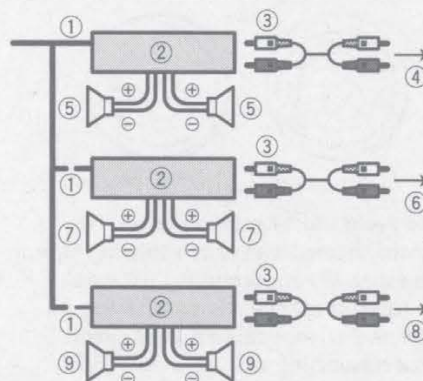
- When a subwoofer is connected to this product instead of a rear speaker, change the subwoofer output setting in the initial setting. The subwoofer output of this product is monaural. For details, refer to the Operation Manual.
- With a two-speaker system, do not connect anything to the speaker leads that are not connected to speakers.

Power amp (sold separately)

Without internal amp

Important

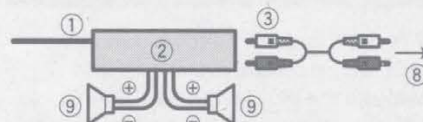
The speaker leads are not used when this connection is in use.



With internal amp

Important

Front speaker and Rear speaker are output from the speaker leads when this connection is in use.



- ① System remote control
- ② Power amp (sold separately)
- ③ Connect with RCA cable (sold separately)
- ④ To Rear output
- ⑤ Rear speaker
- ⑥ To Front output
- ⑦ Front speaker
- ⑧ To Subwoofer output
- ⑨ Subwoofer

NOTES

- You can change the RCA output of the subwoofer depending on your subwoofer system.
- The subwoofer output of this product is monaural.

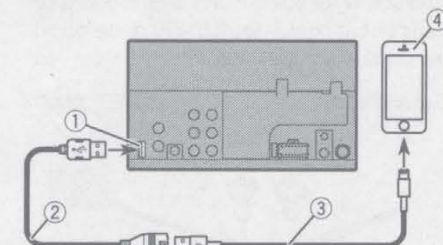
iPod®/iPhone® and smartphone

NOTE

For details on how to connect an external device using a separately sold cable, refer to the manual for the cable.

iPod/iPhone with Lightning connector

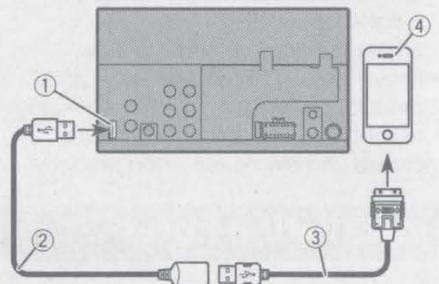
Connecting via the USB port



- ① USB port
- ② USB extension cable 1.5 m (4 ft. 11 in.)
- ③ USB interface cable for iPod/iPhone (CD-IU52) (sold separately)
- ④ iPhone with Lightning connector

iPhone with 30-pin connector

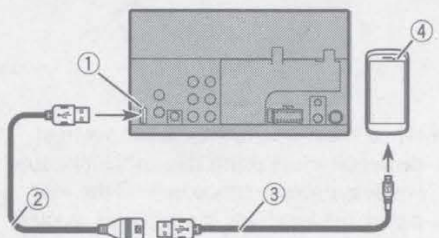
Connecting via the USB port



- ① USB port
- ② USB extension cable 1.5 m (4 ft. 11 in.)
- ③ USB interface cable for iPod/iPhone (CD-IU51) (sold separately)
- ④ iPhone with 30-pin connector

Smartphone (Android™ device)

Connecting via the USB port



- ① USB port
- ② USB extension cable 1.5 m (4 ft. 11 in.)
- ③ USB - micro USB cable (Type USB A - micro USB B) (supplied with CD-MU200 (sold separately))

USB Type-C cable (Type USB A - USB C) (supplied with CD-CU50 (sold separately))

④ Smartphone

NOTE

The length of Type USB A - micro USB B cable cannot exceed 2 m (6 ft. 6 in.) and Type USB A - USB C cannot exceed 4 m (13 ft. 1 in.) according to the USB cable standard. When using a cable other than the above conditions, the main unit function may not operate properly.

Camera

About rear view camera

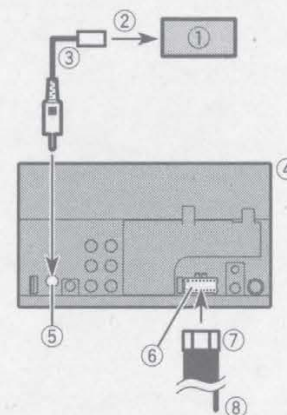
When you use the rear view camera, the rear view image is automatically switched from the video by moving the shift lever to **REVERSE (R)**. **Camera View** mode also allows you to check what is behind you while driving.

⚠ WARNING

USE INPUT ONLY FOR REVERSE OR MIRROR IMAGE REAR VIEW CAMERA. OTHER USE MAY RESULT IN INJURY OR DAMAGE.

⚠ CAUTION

- The screen image may appear reversed.
- With the rear view camera you can keep an eye on trailers, or back into a tight parking spot. Do not use for entertainment purposes.
- Objects in rear view may appear closer or more distant than in reality.
- The image area of full-screen images displayed while backing or checking the rear of the vehicle may differ slightly.

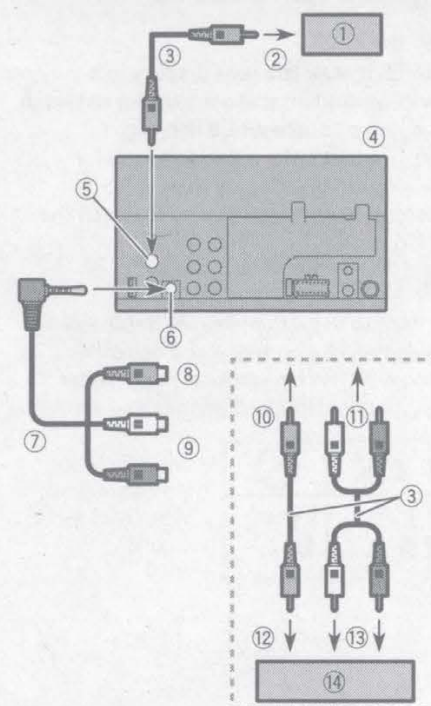


- ① Rear view camera (ND-BC8) (sold separately)
- ② To video output
- ③ RCA cable (supplied with ND-BC8)
- ④ This product
- ⑤ Rear view camera input (R.C IN)
- ⑥ Power supply
- ⑦ Power cord
- ⑧ Violet/white (REVERSE-GEAR SIGNAL INPUT)
Refer to Power cord on page 3.

NOTES

- For mounting the camera, follow the instructions for mounting the camera. Use a camera whose power lead is connected to the ACC switch.
- Connect only the rear view camera to **R.C IN**. Do not connect any other equipment.
- Some appropriate settings are required to use rear view cameras. For details, refer to the Operation Manual.

External video component and the display



- ① Rear display with RCA input jacks
- ② To video input
- ③ RCA cables (sold separately)
- ④ This product
- ⑤ Video output (V OUT)
- ⑥ AUX input
- ⑦ Mini-jack AV cable (sold separately)
- ⑧ Yellow
- ⑨ Red, white
- ⑩ To Yellow
- ⑪ To Red, white
- ⑫ To video output
- ⑬ To audio outputs

- ⑭ External video component (sold separately)

NOTE

The appropriate setting is required to use the external video component. For details, refer to the Operation Manual.

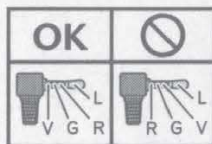
⚠ WARNING

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

This product's rear video output is for connection of a display to enable passengers in the rear seats to watch the video source.

⚠ CAUTION

Be sure to use a mini-jack AV cable (sold separately) for wiring. If you use other cables, the wiring position might differ resulting in disturbed images and sounds.



L : Left audio (White)
R : Right audio (Red)
V : Video (Yellow)
G : Ground

Installation

Precautions before installation

⚠ CAUTION

Never install this product in places where, or in a manner that:

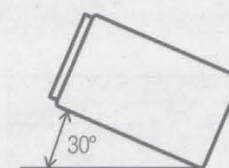
- Could injure the driver or passengers if the vehicle stops suddenly.
- May interfere with the driver's operation of the vehicle, such as on the floor in front of the driver's seat, or close to the steering wheel or shift lever.
- To ensure proper installation, be sure to use the supplied parts in the manner specified. If any parts are not supplied with this product, use compatible parts in the manner specified after you have the part compatibility checked by your dealer. If parts other than supplied or compatible ones are used, they may damage internal parts of this product or they may work loose and the product may become detached.
- 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 airbags, hazard lamp buttons or
 - (iii) impair the driver's ability to safely operate the vehicle.
- Never install this product in front of or next to the place in the dashboard, door, or pillar from which one of your vehicle's airbags would deploy. Please refer to your vehicle's owner's manual for reference to the deployment area of the frontal airbags.

Before installing

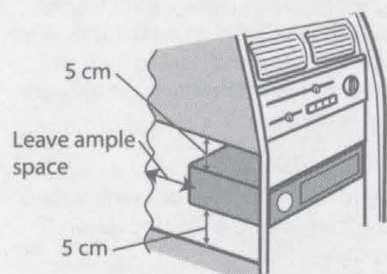
- Consult with your nearest dealer if installation requires drilling holes or other modifications of the vehicle.
- Before making a final installation of this product, temporarily connect the wiring to confirm that the connections are correct and the system works properly.

Installation notes

- Do not install this product in places subject to high temperatures or humidity, such as:
 - Places close to a heater, vent or air conditioner.
 - Places exposed to direct sunlight, such as on top of the dashboard.
 - Places that may be exposed to rain, such as close to the door or on the vehicle's floor.
- Install this product horizontally on a surface within 0 to 30 degrees tolerance.



- When installing, to ensure proper heat dispersal when using this unit, make sure you leave ample space behind the rear panel and wrap any loose cables so they are not blocking the vents.

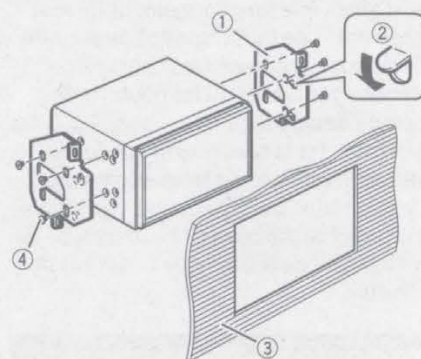
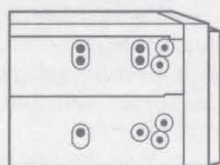


Installation using the screw holes on the side of this product

1 Fastening this product to the factory radio-mounting bracket.

Position this product so that its screw holes are aligned with the screw holes of the bracket, and tighten the screws at three locations on each side.

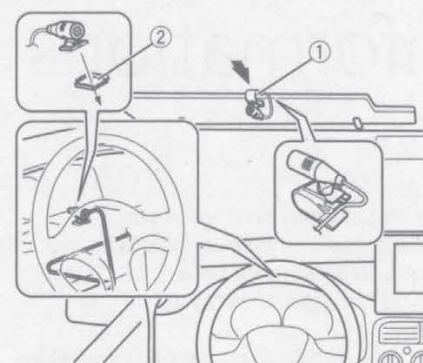
Use either the truss head screws (5 mm × 9 mm) or flush surface screws (5 mm × 9 mm), depending on the shape of the bracket's screw holes.



- ① Factory radio-mounting bracket
- ② If the pawl interferes with installation, you may bend it down out of the way.
- ③ Dashboard or console
- ④ Truss head screw or flush surface screw
Be sure to use the screws supplied with this product.

Installing the microphone

- Install the microphone in a place where its direction and distance from the driver make it easiest to pick up the driver's voice.
- Be sure to turn off (ACC OFF) the product before connecting the microphone.
- Depending on the vehicle model, the microphone cable length may be too short when you mount the microphone on the sun visor. In such cases, install the microphone on the steering column.



- ① The microphone is mounted on the sun visor.
- ② The microphone is mounted on the steering column.
Use separately sold clamps to secure the lead where necessary inside the vehicle. For installation, contact your dealer or an authorized Pioneer Service Station for assistance.

PIONEER CORPORATION

28-8, Honkomagome 2-chome, Bunkyo-ku,
Tokyo 113-0021, Japan

PIONEER ELECTRONICS (USA) INC.

P.O. Box 1540, Long Beach, California 90801-1540, U.S.A.
TEL: (800) 421-1404

PIONEER EUROPE NV

Haven 1087, Keetberglaan 1, B-9120 Melsele, Belgium/Belgique
TEL: (0) 3/570.05.11

PIONEER ELECTRONICS ASIACENTRE PTE. LTD.

2 Jalan Kilang Barat, #07-01, Singapore 159346
TEL: 65-6378-7888

PIONEER ELECTRONICS AUSTRALIA PTY. LTD.

5 Arco Lane, Heatherton, Victoria, 3202 Australia
TEL: (03) 9586-6300

PIONEER ELECTRONICS DE MÉXICO S.A. DE C.V.

Bldv. Manuel Ávila Camacho 138, 10 piso
Col.Lomas de Chapultepec, México, D.F. 11000
Tel: 52-55-9178-4270, Fax: 52-55-5202-3714

先鋒股份有限公司

台北市內湖區瑞光路407號8樓
電話：886-(0)2-2657-3588

先鋒電子（香港）有限公司

香港九龍長沙灣道909號5樓
電話：852-2848-6488

RDS AV RECEIVER
RADIO AV RDS
RECEPTOR RDS AV

Pioneer

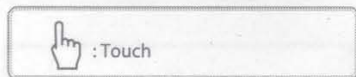
DMH-220EX

Quick start guide
Guide de démarrage rapide
Guía de inicio rápido

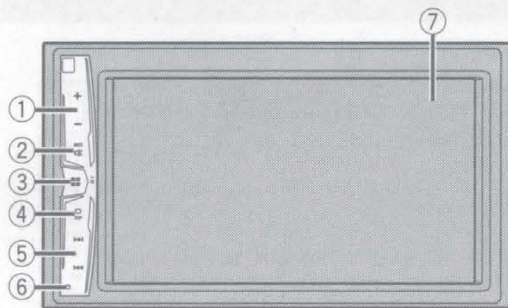
<QRD3840-A>

English

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

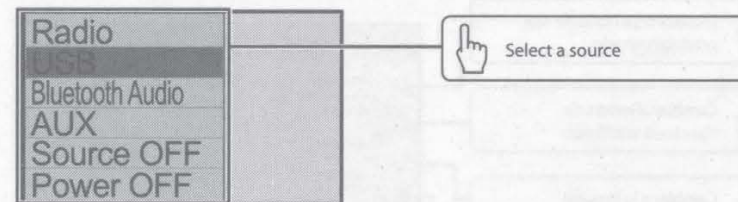
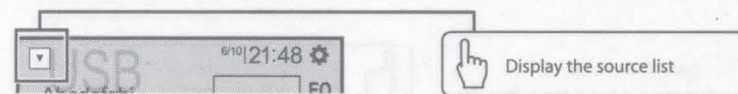
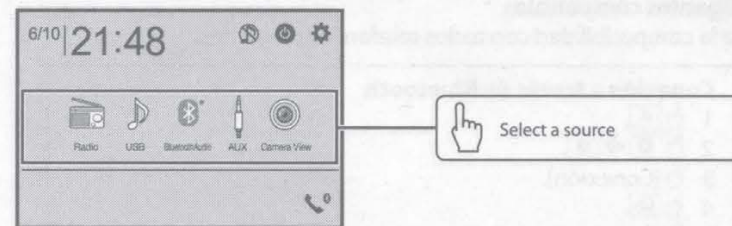


What's What



- 1 **VOL (+/-)** button
- 2 **MUTE** button
- 3 **[Four small squares]** button
Press to display the top menu screen.
Press and hold to power off.
- 4 **DISP** button
Press to turn the display on or off.
- 5 **[Left/Right arrows]** button
Performs manual seek tuning, fast forward, reverse and track search controls.
Press to answer or end a call.
- 6 **RESET** button
- 7 LCD screen

Selecting the source



English

This guide is intended to guide you through the basic functions of this unit.

For details, please refer to the Operation manual stored on the website.

<http://www.pioneerelectronics.com/PUSA/Car>



Français

Ce guide est destiné à vous guider dans les fonctions de base de cet appareil.

Pour les détails, veuillez vous reporter au Mode d'emploi disponible sur le site Web.

<http://www.pioneerelectronics.com/PUSA/Car>



Español

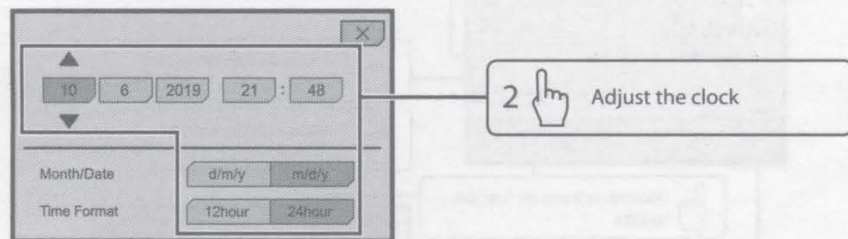
Esta guía tiene como fin explicar las funciones básicas de esta unidad.

Para obtener más información, consulte el manual de operaciones que se encuentra en el sitio web.

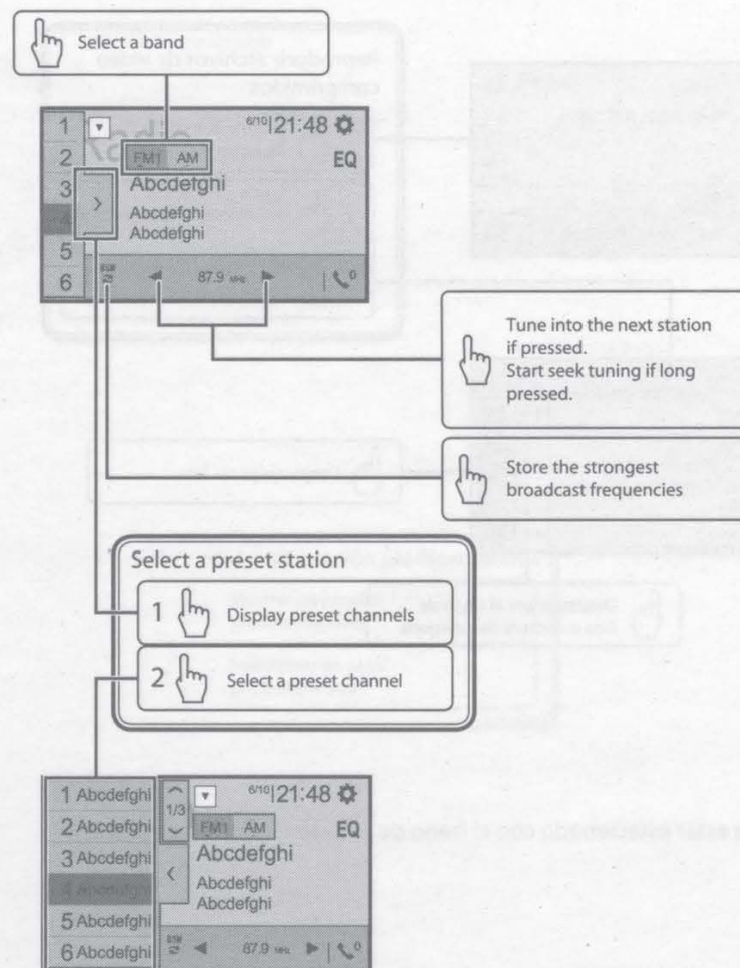
<http://www.pioneerelectronics.com/PUSA/Car>



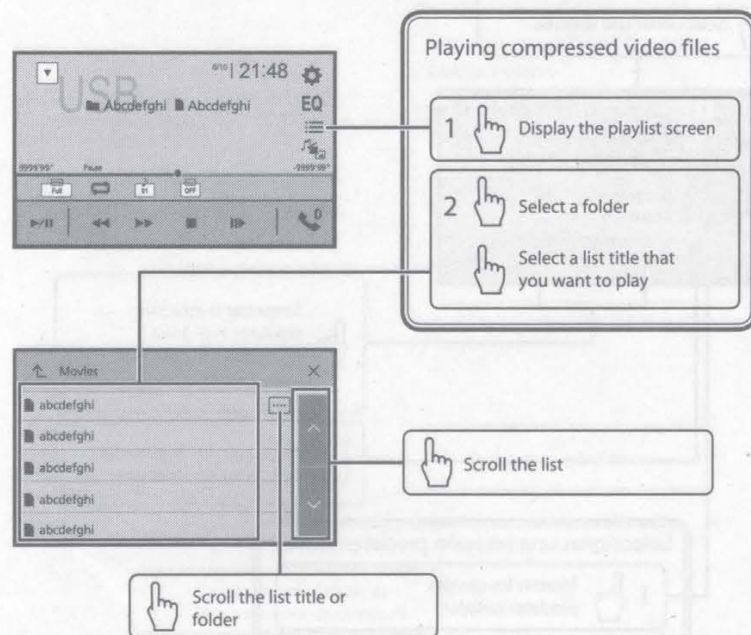
Setting the clock



Tuner operation

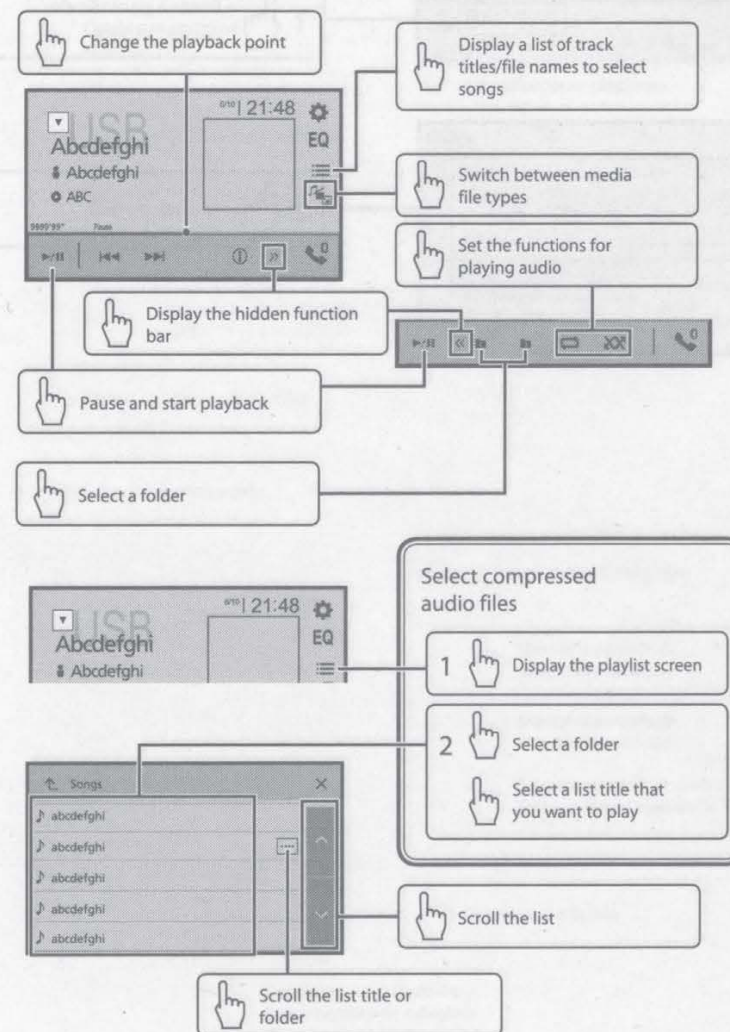


Moving images operation



The vehicle must be in park with the handbrake set.

Audio operation



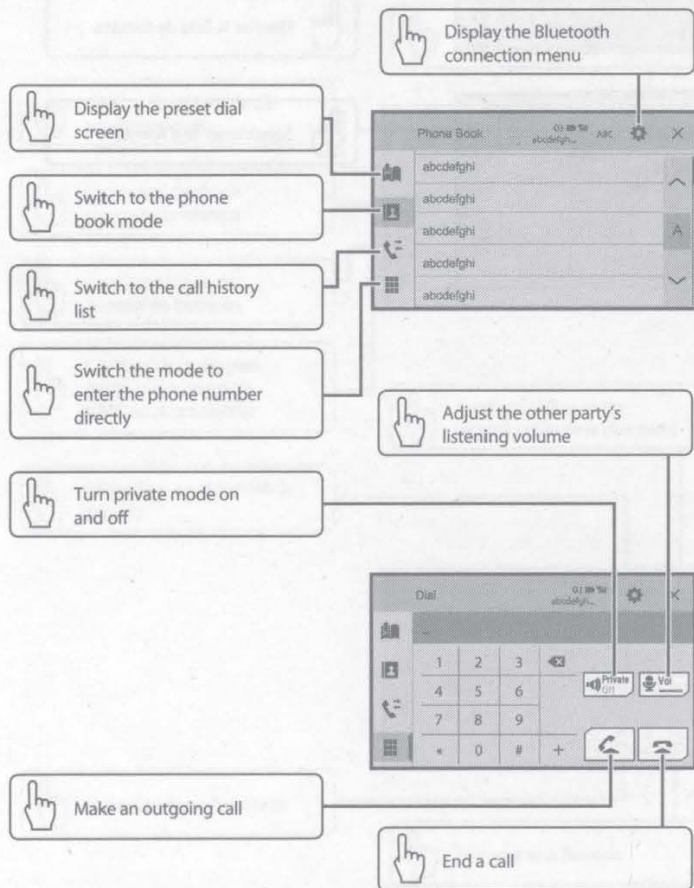
Bluetooth telephone operation

Compatible smartphones

Compatibility with all smartphones is not guaranteed.

Connecting to Bluetooth

- 1
- 2
- 3 [Connection].
- 4
- 5 the Bluetooth device name.





**PIONEER ELECTRONICS (USA) INC.
LIMITED WARRANTY**

WARRANTY VALID ONLY IN COUNTRY OF PRODUCT PURCHASE

WARRANTY

Pioneer Electronics (USA) Inc. (Pioneer) warrants that Pioneer® Car Electronics, Speaker, and Accessory Products distributed by Pioneer in the U.S.A. and Canada that fail to function properly under normal use due to a manufacturing defect when installed and operated according to the owner's manual enclosed with the unit will be repaired or replaced with a unit of comparable value, at Pioneer's option, without charge to you for parts or actual repair work. Replacement units and/or parts supplied under this warranty may be new or rebuilt at Pioneer's option.

This Limited Warranty applies to the original or any subsequent owner of this Pioneer product during the warranty period provided the product was purchased from an authorized Pioneer dealer in the U.S.A. or Canada. You will be required to provide a sales receipt or other valid proof of purchase showing the date of original purchase. In the event service is required, the product must be delivered within the warranty period, transportation prepaid, only from within the country of purchase as explained in this document. You will be responsible for removal and installation of the product. Pioneer will pay to return the repaired or replacement product to you within the country of purchase.

PRODUCT WARRANTY PERIOD (Runs from the date of first retail sale)

	<u>Parts</u>	<u>Labor</u>
Car Electronics, Speakers, and Accessories	1 Year	1 Year

WHAT IS NOT COVERED

This Limited Warranty applies to Pioneer products that are purchased from an authorized Pioneer dealer. IF THIS PRODUCT WAS PURCHASED FROM ANY OTHER SOURCE, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND THIS PRODUCT IS SOLD STRICTLY "AS IS" AND "WITH ALL FAULTS". PIONEER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL AND/OR INCIDENTAL DAMAGES. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Pioneer does not warrant any product listed above when it is used in a trade or business or in any industrial or commercial application. This warranty does not apply if the product has been subjected to power in excess of its published power rating. This warranty does not cover cosmetic scratches or any other appearance item; damage or defects resulting from alterations or modifications not authorized in writing by Pioneer; accident, collisions, misuse or abuse; the use of unauthorized parts or labor; improper installation or maintenance; lightning or power surges; subsequent damage from leaking; damage from inoperative batteries; or the use of batteries not conforming to those specified in the owner's manual. This warranty does not cover the cost of parts or labor that would otherwise be provided without charge under this warranty obtained from any source other than Pioneer. Altered, defaced, or removed serial numbers void this warranty.

NO OTHER WARRANTIES

TO THE FULLEST EXTENT PERMITTED BY LAW, PIONEER MAKES NO REPRESENTATIONS OR WARRANTIES OR ACCEPTS ANY CONDITIONS WITH RESPECT TO THIS PRODUCT EXCEPT AS STATED IN THIS DOCUMENT. PIONEER LIMITS ITS OBLIGATIONS UNDER ANY IMPLIED WARRANTIES AND CONDITIONS INCLUDING, BUT NOT LIMITED TO, WARRANTIES AND CONDITIONS, WHETHER EXPRESS OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, TO A PERIOD NOT TO EXCEED THE WARRANTY PERIOD. NO WARRANTIES OR CONDITIONS SHALL APPLY AFTER THE WARRANTY PERIOD. Some states and provinces do not allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province. To the extent any provision of this limited warranty is deemed invalid or unenforceable under applicable law, such determination will have no effect on the remaining provisions, which will continue in full force and effect.

TO OBTAIN SERVICE

In the U.S.A. or Canada, to receive warranty service, you need to present your sales receipt showing place and date of original owner's transaction.

Please contact one of the following to obtain service:

Your Authorized Pioneer Dealer - Your Pioneer Dealer may repair or replace your unit or refer you to an Authorized Pioneer Service Company. Your sales receipt should list the contact information (phone number, fax, email, etc.) for your Dealer.

Pioneer Customer Support - Can advise the optimal service option for your model and geographic location. Please call us at **1-800-421-1404** or visit www.pioneerelectronics.com (for USA) or <http://www.pioneerelectronics.ca> (for Canada), click on "Support," then select "Contact Us."

Your Authorized Pioneer Service Company - Can perform repairs for most Car Electronics, Speaker and Accessory products and advise other options as applicable. Please visit Pioneer's website, click on "Support," and select "Find a Service Center."

Shipping Your Unit for Service - YOU MUST FIRST CONTACT PIONEER TO GET RETURN AUTHORIZATION. PLEASE DO NOT SEND IN YOUR PRODUCT WITHOUT CONTACTING CUSTOMER SUPPORT. If you have a return authorization number, please package the product carefully and send it transportation prepaid by a traceable, insured method to an Authorized Pioneer Service Company or Pioneer. Use adequate padding material to prevent damage in transit. Include your name, address and a telephone number where you can be reached during business hours.

For questions about your product, please contact Pioneer Customer Support as described above or write to us at:

**Customer Support
Pioneer Electronics (USA) Inc.
P.O. Box 1720
Long Beach, California 90801 U.S.A.**

DISPUTE RESOLUTION

Following our response to any initial request to Customer Support, should a dispute arise between you and Pioneer, Pioneer makes available its Complaint Resolution Program to resolve the dispute. The Complaint Resolution Program is available to you without charge. In the U.S.A., you are required to use the Complaint Resolution Program before you exercise any rights under, or seek any remedies, created by the Magnuson-Moss Warranty Act but may be entitled to file suit under state law without using the Complaint Resolution Program. To use the Complaint Resolution Program, call 1-800-421-1404 and explain to the customer service representative the problem you are experiencing, steps you have taken to have the product repaired during the warranty period, and the name of the authorized Pioneer Dealer from which the Pioneer product was purchased. After the complaint has been explained to the representative, a resolution number will be issued. Within forty (40) days of receiving your complaint, Pioneer will investigate the dispute and will either: (1) respond to your complaint in writing informing you what action Pioneer will take, and in what time period, to resolve the dispute; or (2) respond to your complaint in writing informing you why Pioneer will not take any action.

RECORD THE PLACE AND DATE OF PURCHASE. KEEP THIS INFORMATION AND YOUR SALES RECEIPT IN A SAFE PLACE

Model No. _____ Serial No. _____ Purchase Date _____
Purchased From _____



PIONEER ELECTRONICS (USA) INC.

GARANTIE LIMITÉE

GARANTIE VALIDE UNIQUEMENT DANS LE PAYS D'ACHAT DU PRODUIT

GARANTIE

Pioneer Electronics (USA) Inc. (ci-après « Pioneer ») garantit que les appareils électroniques, haut-parleurs et produits accessoires automobiles Pioneer® distribués par Pioneer aux États-Unis et au Canada, s'ils sont installés et utilisés conformément au manuel de l'utilisateur qui accompagne l'appareil et ne fonctionnent pas correctement dans des conditions normales d'utilisation en raison d'un défaut de fabrication, seront réparés ou remplacés par un appareil de valeur comparable, à la discrétion de Pioneer, sans frais de pièces ou de réparation. Les appareils de remplacement et/ou pièces fournies en vertu de cette garantie peuvent être neufs ou remis à neuf, à la discrétion de Pioneer.

Cette garantie limitée s'applique au propriétaire initial ou à tout propriétaire ultérieur de ce produit Pioneer pendant la période de garantie, sous réserve que le produit ait été acheté d'un détaillant Pioneer autorisé aux États-Unis ou au Canada. Vous devrez fournir un reçu de caisse ou autre preuve d'achat valide indiquant la date de l'achat initial. Si une réparation s'avère nécessaire, le produit doit être expédié dans la période de garantie, frais de port prépayés, uniquement depuis le pays de l'achat, et tel qu'expliqué dans le présent document. Vous serez responsable du retrait et de l'installation du produit. Pioneer paiera les frais de retour du produit réparé ou de remplacement, à l'intérieur du pays d'achat.

PÉRIODE DE GARANTIE DU PRODUIT (La garantie prend effet à compter de la première vente au détail)

Pièces Main-d'œuvre

Appareils électroniques, haut-parleurs et produits accessoires automobiles 1 an 1 an

ÉLÉMENTS NON COUVERTS PAR LA GARANTIE

Cette garantie limitée s'applique aux produits Pioneer achetés d'un détaillant Pioneer autorisé. SICE PRODUIT A ÉTÉ ACHETÉ DE TOUTE AUTRE SOURCE, IL N'Y A PAS DE GARANTIES, EXPLICITES OU IMPLICITES, Y COMPRIS LES GARANTIES IMPLICITES DE QUALITÉ MARCHANDE ET GARANTIES IMPLICITES D'ADAPTATION À UN USAGE PARTICULIER, ET CE PRODUIT EST VENDU « TEL QUEL » ET « AVEC TOUS SES DÉFAUTS ». PIONEER NE SERA RESPONSABLE D'AUCUN DOMMAGE CONSÉCUTIF ET/OU ACCESSOIRE. Certains États et certaines provinces n'autorisent pas l'exclusion ou la limitation des dommages consécutifs ou indirects, par conséquent, la limitation ou l'exclusion indiquée plus haut peut ne pas s'appliquer à vous.

Pioneer ne garantit aucun des produits énumérés ci-dessus s'ils sont utilisés à des fins commerciales ou professionnelles, ou dans toute application industrielle ou commerciale. Cette garantie ne s'applique pas si le produit a été soumis à une puissance nominale excédant celle indiquée dans les documents s'y appliquant. Cette garantie ne couvre pas les rayures ou tout autre élément esthétique ; les dommages ou défauts résultant de retouches ou modifications non autorisées par écrit par Pioneer ; les accidents, collisions, usages inappropriés ou abusifs ; l'utilisation non autorisée de pièces ou de main-d'œuvre ; l'installation ou la maintenance inadéquate ; les dommages causés par la foudre ou la surtension ; les dommages découlant de fuites ; les dommages découlant de piles défectueuses ; ou l'utilisation de piles non conformes à celles spécifiées dans le manuel de l'utilisateur. Cette garantie ne couvre pas le coût des pièces ou de la main-d'œuvre qui seraient autrement offertes sans frais en vertu de la présente garantie, si elles sont obtenues auprès d'une source autre que Pioneer. Les numéros de série modifiés, oblitérés ou enlevés annulent cette garantie.

INVALIDITÉ DE TOUTES AUTRES GARANTIES

DANS TOUTE LA MESURE AUTORISÉE PAR LA LOI, SAUF DISPOSITION CONTRAIRE DANS LE PRÉSENT DOCUMENT, PIONEER NE FAIT AUCUNE REPRÉSENTATION ET N'OFFRE AUCUNE GARANTIE, NI N'ACCÉPTE AUCUNE CONDITION CONCERNANT CE PRODUIT. PIONEER LIMITE SES OBLIGATIONS EN VERTU DE TOUTES GARANTIES ET CONDITIONS IMPLICITES, Y COMPRIS, MAIS SANS S'Y LIMITER, LES GARANTIES ET CONDITIONS, EXPRESSES OU IMPLICITES, DE COMMERCIALITÉ ET D'ADAPTATION À UN USAGE PARTICULIER, À UNE PÉRIODE N'EXCÉDANT PAS LA PÉRIODE DE GARANTIE. AUCUNE GARANTIE OU CONDITION NE S'APPLIQUERA APRÈS LA PÉRIODE DE GARANTIE. Certains États et certaines provinces n'autorisent pas les limitations sur la durée d'une garantie implicite. Par conséquent, il se pourrait que certaines des limitations ou exclusions précitées ne s'appliquent pas à vous.

Cette garantie vous confère des droits spécifiques légaux, mais vous pouvez bénéficier d'autres droits qui peuvent varier selon les États ou les provinces. Dans la mesure où toute disposition de cette garantie limitée est considérée comme invalide ou inexécutable en vertu du droit applicable, elle sera sans effet sur les autres dispositions, qui resteront pleinement en vigueur.

DEMANDE DE SERVICE

Aux États-Unis et au Canada, pour recevoir un service de garantie vous devez présenter votre reçu de caisse indiquant le lieu et la date de la transaction d'origine.

Pour toute demande de service, veuillez contacter :

Votre détaillant Pioneer autorisé - Votre détaillant Pioneer peut réparer ou remplacer votre appareil ou vous mettre en contact avec une entreprise de services Pioneer autorisée. Vous devriez trouver les coordonnées (numéro de téléphone, numéro de télécopieur, adresse de courriel, etc.) de votre détaillant sur votre reçu de caisse.

Support à la clientèle Pioneer - peut vous conseiller sur le choix de l'option de service optimal pour votre modèle et votre région géographique. Appelez-nous au 1-800-421-1404 ou visitez notre site Web à www.pioneerelectronics.com (pour les États-Unis) ou <http://www.pioneerelectronics.ca> (pour le Canada), cliquez sur « Soutien », puis sélectionnez « Contactez-nous ».

Votre entreprise de services Pioneer autorisée - peut effectuer des réparations pour la plupart des produits électroniques automobiles, des haut-parleurs et des produits accessoires et peut vous conseiller sur le choix d'autres options, selon le cas. Visitez le site Web de Pioneer, cliquez sur « Soutien », puis sélectionnez « Trouver un Centre de service ».

Expédition de votre appareil aux fins de service — VOUS DEVEZ D'ABORD CONTACTER PIONEER POUR OBTENIR UNE AUTORISATION DE RETOUR. VEUILLEZ NE PAS ENVOYER VOTRE PRODUIT SANS AVOIR D'ABORD CONTACTÉ LE SERVICE À LA CLIENTÈLE. Si vous avez un numéro d'autorisation de retour, veuillez emballer le produit soigneusement et l'envoyer, frais de port prépayés avec un service d'expédition traçable et assurable, à une société de services Pioneer autorisée ou à Pioneer. Utilisez des matériaux d'emballage coussinés adéquats pour éviter les dommages pendant le transport. Incluez votre nom, votre adresse et un numéro de téléphone où nous pouvons vous joindre pendant les heures de bureau.

Pour toute question concernant votre produit, veuillez contacter le soutien à la clientèle Pioneer comme décrit ci-dessus ou écrivez-nous à :

Customer Support, Pioneer Electronics (USA) Inc., P.O. Box 1720, Long Beach, California 90801 U.S.A.

RÈGLEMENT DES CONFLITS

Dans le cas d'un conflit entre vous et Pioneer après notre réponse à votre demande initiale adressée service à la clientèle (Customer Support), Pioneer met à votre disposition son Programme de résolution des plaintes pour résoudre le conflit. Le Programme de résolution des plaintes est disponible sans frais. Aux États-Unis, vous êtes tenu de recourir au Programme de règlement des plaintes avant d'exercer vos droits ou d'exiger réparation en vertu de la loi sur la garantie « Magnuson-Moss Warranty Act », mais vous êtes en droit d'engager une action en justice en vertu des lois de l'État sans passer par le Programme de résolution des plaintes. Pour avoir recours au Programme de résolution des plaintes, composez le 1-800-421-1404 et décrivez au représentant du service à la clientèle le problème que vous rencontrez et les démarches que vous avez entreprises pour faire réparer le produit pendant la période de garantie, et donnez-lui le nom du détaillant Pioneer autorisé auprès duquel vous vous êtes procuré le produit Pioneer. Une fois que votre plainte a été expliquée au représentant, un numéro de résolution vous sera communiqué. Pioneer étudiera le conflit et, dans un délai de quarante (40) jours après la réception de votre plainte, (1) répondra à votre plainte par écrit pour vous aviser des démarches qu'elle entreprendra pour résoudre le conflit, et indiquera combien de temps ces démarches prendront ; ou (2) répondra à votre plainte par écrit pour vous indiquer les raisons pour lesquelles Pioneer n'entreprendra aucune démarche.

ENREGISTREZ LE LIEU ET LA DATE D'ACHAT. VEUILLEZ GARDER CES INFORMATIONS ET VOTRE REÇU DE CAISSE DANS UN ENDROIT SÛR

N° de modèle _____ N° de série _____ Date d'achat _____

Acheté de _____