

Pioneer

DMH-A5450BT

RDS AV RECEIVER

English

Operation Manual

Contents

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

Important

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

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Precaution

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 authorised 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 odour from this product, or any other abnormal signs on the LCD screen, turn off the power immediately and consult your dealer or the nearest authorised 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 authorised 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 handbrake 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 handbrake 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.

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 HANDBRAKE 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 handbrake interlock system which is in place for your protection. Tampering with or disabling the handbrake 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 handbrake. Please keep the brake pedal pushed down before releasing the handbrake.

When using a display connected to the video output terminal

The video output terminal 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.
- It may not be recognised properly by this product if a USB device that had been incorrectly disconnected from the computer is connected.

In case of trouble

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

Visit our website

Visit us at the following site:

In Mexico

<http://www.pioneer-mexico.com.mx/>

In Singapore

<https://sg.pioneercarentertainment.com/>

In Malaysia

<https://my.pioneercarentertainment.com/>

In Thailand

<https://th.pioneercarentertainment.com/>

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In Israel

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<http://pioneer-mea.com/en/>

In Latin

<https://pioneer-latin.com/>

In Hong Kong

<http://www.pioneerhongkong.com.hk/ct/company.php>

In Taiwan

<http://www.pioneer-twn.com.tw/>

In India

<https://pioneer-india.in/>

- We offer the latest information about PIONEER CORPORATION on our website.
- Pioneer regularly provides software updates to further improve its products. Please check the support section of the Pioneer website for all available 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 mobile phone, keep the aerial of the mobile phone away from the LCD screen to prevent disruption of the video in the form of spots, coloured 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

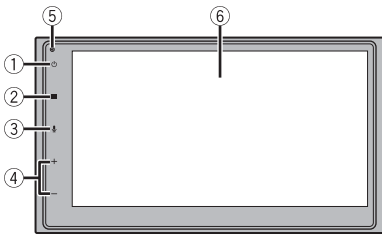
- This manual uses diagrams of actual screens to describe operations. However, the screens on some units may not match those shown in this manual depending on the model used.
- When an iPhone is connected to the unit, the source name on the unit appears as [iPod]. Please note that this unit only supports iPhone regardless of the source name. For details of iPhone compatibility, refer to Compatible iPhone models (page 57).




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

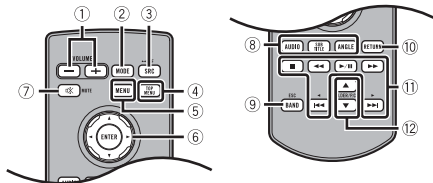


①		<p>Touch to turn off the display information. To turn on the display information, touch again. Touch and hold to power off. To power back on, touch again.</p> <p>TIP</p> <p>If you power the unit off, you can turn off almost all functions. The unit turns on by operating the following functions:</p> <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. • The ignition switch is turned off (ACC OFF), then turned on (ACC ON).
②		<p>Touch to display the top menu screen. Touch and hold to mute or unmute.</p>
③		<p>Touch to activate the voice recognition mode.*1 Touch and hold to display the mobile device search screen.*2</p>
④	VOL (+/-)	<p>Touch to adjust the volume.</p>
⑤	RESET	<p>Press to reset the microprocessor (page 10).</p>
⑥	LCD screen	

*1 This function is available only when Apple CarPlay or Android Auto is activated.

*2 This function is not available when Apple CarPlay or Android Auto is activated.

Remote control



①	VOLUME (+/-)	
②	MODE	Not used.
③	SRC	Press to cycle through all the available sources. Press and hold to turn the power off.
④	TOP MENU	Not used.
⑤	MENU	Not used.
⑥	Thumb pad	Not used.
⑦	MUTE	
⑧	AUDIO SUBTITLE ANGLE	Not used.
⑨	BAND/ESC	Press to select the tuner band when tuner is selected as a source.
⑩	RETURN	Not used.
⑪	▶/	Press to pause or playback.
	◀◀ or ▶▶	Press to return to the previous track (chapter) or go to the next track (chapter). Press and hold to perform fast reverse or fast forwards.
	◀◀ or ▶▶	Press to return to the previous track (chapter) or go to the next track (chapter).
	■	For USB audio: No action. For USB image: Press to stop playback. For USB video: Press to stop playback.
⑫	FOLDER/P.CH	Press to select the next or previous title or folder. Press to recall radio station frequencies assigned to preset channel keys. Press to answer or end a call (only for hands-free phoning via Bluetooth).

Basic operation

Resetting the microprocessor

CAUTION

- Pressing the RESET button restarts this product. In that case, some of the settings and recorded contents are reset to the factory settings.
 - Do not perform this operation when a device is connected to this product.
- 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.



Using the touch panel

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

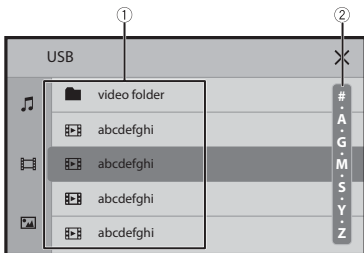
NOTE

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

Common touch panel keys

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

Operating list screens



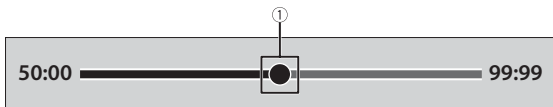
①

Touching an item on the list allows you to narrow down the options and proceed to the next operation.

②

Appears when items cannot be displayed on a single page. Drag the side bar, the initial search bar or the list to view any hidden items.

Operating the time bar















①

You can change the playback point by dragging the key.




Top menu screen



①	<p>Source icons</p> <p>TIP You can display the hidden source icon(s) by swiping left on the screen.</p>
	<p>Setting the clock display (page 48)</p>
	<p>Settings (page 40)</p>
	<p>Displays the connected devices.</p> <p>: lights up when Apple CarPlay is available. : lights up when Android Auto is available. : lights up when hands-free phoning via Bluetooth is available. : lights up when Bluetooth audio is available.</p> <ul style="list-style-type: none"> • Touch the device name to switch the device to be connected with Apple CarPlay or Android Auto. • Touch  to light  and  up, when you use hands-free phoning or Bluetooth audio. • If there is no connected device, a message that prompts you to search the Bluetooth device will appear. Touch [Yes] to search the device. <p>NOTES</p> <ul style="list-style-type: none"> • You can search the device by touching  if you cannot find the device you want to connect. • You can delete the device by touching  if you cannot add the device because the number of registered devices are full.

Bluetooth®

Bluetooth connection

- 1 Turn on the Bluetooth function on the device.
- 2 Display the connected Bluetooth device list screen on the device.
- 3 Touch .
- 4 Touch .
The device search screen appears.
- 5 Touch [Yes] to start searching.
Touch  if another device is already connected to the unit.
- 6 Touch a desired device on the screen.

NOTE

A pop-up message may appear if another device is already connected to the unit. Touch [OK] on the message.

- 7 Touch [Yes] to pair with the device.
- 8 Perform the pairing operation by operating the device.
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.

TIPS

- Once an Android Auto compatible smartphone is connected via Bluetooth, the smartphone may be automatically connected with Wireless Android Auto at the timing of Bluetooth reconnection such as by turning the ignition switch to on (ACC ON).
- The unit's screen changes to the hands-free phoning screen when you start the Siri function on your iPhone while the iPhone is connected to the unit via Bluetooth.

NOTES



- If five devices are already paired, the message confirming whether to delete the registered device is displayed. If you want to delete the device, touch [Agree]. If you want to delete other device, touch [Go To DeviceList] and delete the devices manually (page 12).
- 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.

Bluetooth Settings

- 1 Touch .
- 2 Touch  then [Bluetooth Settings].

CAUTION

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

Menu Item	Description
[Connection]	Activate to connect the last connected Bluetooth device automatically.
[Auto Answer]	(page 16)
[Search]	Search for available devices.
[Bluetooth Memory Clear]	Touch [OK] to clear the Bluetooth memory.
[Bluetooth Paired Device List]	Display the paired device list. Touch  to delete registered device. Touch  to activate/deactivate hands-free phoning or Bluetooth audio. TIP Perform the operations on the select device screen (page 12) to switch the device to be connected with Apple CarPlay or Android Auto.
[Bluetooth Device Info]	Displaying the device name of this product.



Hands-free phoning

To use this function you need to connect your mobile phone to this product via Bluetooth in advance (page 13).



CAUTION










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

Making a phone call

- 1 Touch .
- 2 Touch .
The phone menu screen appears.
- 3 Touch one of the call icons on the phone menu screen.

TIPS



-  on the top menu screen is not available while Android Auto is on. In that case, use the Android Auto phone function.
- Confirm whether hands-free phoning via Bluetooth is activated if  on the top menu screen is not available (page 12).

	<p>The following items are displayed.</p> <ul style="list-style-type: none"> • Reception status of the current mobile phone • Battery status of the current mobile phone
	<p>Synchronises the contacts on this product's phone book with the contacts on your phone manually.</p>
	<p>Using phone book 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 Make a phone call from the received call , dialled call , or missed call .</p>
	<p>Direct phone number input Touch the number keys to enter the phone number then touch  to make a call.</p>



► To end the call

- 1 Touch .

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 Touch .
- 2 Touch  then [Bluetooth Settings].

Menu Item	Description
[Auto Answer]	Activate to answer an incoming call automatically.

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

► Registration and connection

- Mobile phone operations vary depending on the type of mobile phone. Refer to the instruction manual that came with your mobile 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 mobile phones, even after you press the accept button on the mobile phone when a call comes in, hands-free phoning may not be performed.

► The received call and dialled number histories

You cannot make a call to the entry of an unknown user (no phone number) in the received call history.

► Phone book transfers

- If there are more than 1 000 phone book entries on your mobile 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 mobile 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 13).

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 Touch .

2 Touch [Bluetooth Audio].

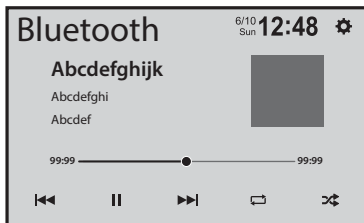
The Bluetooth audio playback screen appears.








TIP

If [Bluetooth Audio] on the top menu screen is not available, try the followings:

- Pull out the mobile phone from the USB cable.
- Confirm whether Bluetooth audio is activated (page 12).

Basic operation



 	Switches between playback and pause.
 	Skips files forwards or backwards.
 	Sets a repeat play range.
	Plays files in random order.

Wi-Fi®

By connecting your Wi-Fi certified mobile device to this product via Wi-Fi connection, you can use Apple CarPlay or Android Auto wirelessly.

Wi-Fi connection

See the following chapters for the procedure on how to make a Wi-Fi connection for each application.

- Apple CarPlay (page 33)
- Android Auto (page 36)

Wi-Fi Settings

- 1 Touch .
- 2 Touch .
- 3 Touch [Wi-Fi Settings].

Menu Item	Description
[Wi-Fi]	Switches Wi-Fi connection on or off.
[Device Information]	Displays the network name and MAC address of this product.
[Password]	Displays a Wi-Fi connection password.
[Password reset]	Touch to reset the Wi-Fi connection password.

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.

- iPhone
- Bluetooth audio
- Camera View
- AUX

Selecting a source

1 Touch .

2 Touch the source icon.

TIP

You can display the hidden source icon(s) by swiping left on the screen.

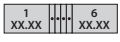



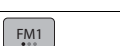
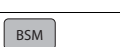





Radio



Starting procedure

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

Basic operation



	 <p>Recalls the preset channel stored to a key from memory.</p>
	 <p>Stores the current broadcast frequency to a key.</p>
	<p>Selects the FM1, FM2, FM3, AM1 or AM2 band.</p>
	 <p>Performs BSM (best stations memory) function (page 22).</p>
	 <p>Manual tuning</p>
	 <p>Seek tuning Skips to the nearest station from the current frequency.</p>
	<p>TIP When [RDS] is set to on, FM seek tuning step changes to 100 kHz, and when [RDS] is set to off, the step changes to 50 kHz (page 22).</p>

	Activates/deactivates the local seek mode.
	Recall a preset channel in order and broadcast each channel for 10 seconds.

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

Radio settings

1 Touch .

2 Touch then [System Settings].

The system setting screen appears.

3 Touch [Radio settings].

Menu Item	Description
[RDS]	Set on to enable the RDS function.
[AF]	Allow the unit to retune to a different frequency providing the same station.
[TA]	Receives the traffic announcement, interrupting the other sources.
[AM Step] [9kHz] [10kHz]	You can switch the seek/manual tuning step for the AM band.
[Location Setting] [South America] [Australia]	Changes FM frequency band according to the location you use.

Compressed files

Plugging/unplugging a USB storage device

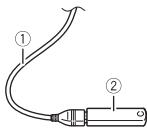
You can play compressed audio, compressed video, or still image files stored in an external storage device.

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.

NOTES

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



①	USB cable
②	USB storage device

Unplugging a USB storage device

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


NOTES

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

Starting procedure

- 1 Plug the USB storage device into the USB cable.






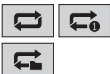





TIP

You can also start this source by pressing  then touching [USB].

Basic operation

Audio source



	Switches between playback and pause.
	 Skips files forwards or backwards.
	 Performs fast forwards or fast reverse.
	Sets a repeat play range for all files/the current folder/the current file.
	Plays files or does not play in random order.
	Selects a file from the list. Touch a file on the list to playback. TIPS <ul style="list-style-type: none">• Touching a folder on the list shows its contents. You can play a file on the list by touching it.• You can switch the following media file types.<ul style="list-style-type: none">- : Compressed audio files- : Compressed video files- : Image files

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 handbrake.



	<p>Switches between playback and pause.</p>
	<p>Skips files forwards or backwards.</p>
	<p>Performs fast forwards or fast reverse.</p>
	<p>Sets a repeat play range for all files/the current folder/the current file.</p>
	<p>Selects a file from the list. Touch a file on the list to playback.</p> <p>TIPS</p> <ul style="list-style-type: none"> • Touching a folder on the list shows its contents. You can play a file on the list by touching it. • You can switch the following media file types. <ul style="list-style-type: none"> - : Compressed audio files - : Compressed video files - : Image files
	<p>You can adjust [Brightness]/[Contrast]/[Colour] by touching [+]/[-].</p>



	<p>Switches between playback and pause.</p>
	<p>Skips files forwards or backwards.</p>
	<p>Rotates the displayed picture 90° anticlockwise.</p>
	<p>Sets a repeat play range for all files/the current folder/the current file.</p>
	<p>Selects a file from the list. Touch a file on the list to playback.</p> <p>TIPS</p> <ul style="list-style-type: none"> • Touching a folder on the list shows its contents. You can play a file on the list by touching it. • You can switch the following media file types. <ul style="list-style-type: none"> - : Compressed audio files - : Compressed video files - : Image files

iPhone

NOTE

iPhone may be referred to as iPod in this manual.

Connecting your iPhone

When connecting an iPhone to this product, the settings are automatically configured according to the device to be connected. For details of the compatibility, refer to Compatible iPhone models (page 57).

1 Connect your iPhone via USB.

If the iPod screen is automatically displayed, you do not need to perform the following steps.

2 Touch .

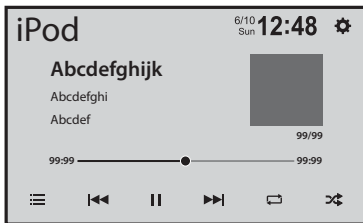
3 Touch [iPod].

NOTE





For USB connection, refer to the Quick start guide.

Basic operation

Audio source



Switches between playback and pause.

	Skips files forwards or backwards.
	Sets a repeat play range for all in the selected list/the current song.
	Plays songs within the selected list/album randomly.
	Selects a song from the list. Touch the category then the title of the list to playback of the selected list. TIP You can search a song in the songs list by dragging the initial search bar. NOTES <ul style="list-style-type: none">• Depending on the generation or version of the iPhone, some functions may not be available.• Only 2 000 songs in the iPhone are available in the list if the iPhone has more than 2 000 songs. Available songs depend on the iPhone.

WebLink™

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

NOTES

- The supported finger gestures may vary depending on the WebLink compatible application.
- To use WebLink, you must first install the WebLink Host app on the iPhone or smartphone. For details about the WebLink Host app, visit the following site: <https://www.abaltatech.com/weblink/>
- Be sure to read Using app-based connected content (page 57) before you perform this operation.
- Copyright protected files such as DRM cannot be played.

WARNING

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

Using WebLink

Important

- Pioneer is not responsible for content or functions accessed via WebLink, which are the responsibility of the application and content providers.
- Availability of non-Pioneer content and services, including apps and connectivity, may change or discontinue without notice.
- When using WebLink with the Pioneer product, available content and functions will be limited while driving.
- WebLink allows access to applications other than those listed, subject to limitations while driving.

Starting procedure

For iPhone users

System requirement

iOS 14 or higher

- 1 **Unlock your iPhone and connect it to this product via USB.**

TIP

You can start this source by touching , swiping left on the screen, and touching [WebLink] if the screen except for WebLink appears after the USB connection.

NOTE

For USB connection, refer to the Quick start guide.

For smartphone (Android™) users**System requirement**

Android 7.0 or higher

NOTE

The video playback capability depends on the connected Android device.

1 Unlock your smartphone and connect it to this product via USB.**TIP**

You can start this source by touching , swiping left on the screen, and touching [WebLink] if the screen except for WebLink appears after the USB connection.

NOTES

- For USB connection, refer to the Quick start guide.
- Make sure that file transfer mode for USB connection is enabled on your smartphone if WebLink does not start automatically.

Basic operation

Touch the desired application icon after the WebLink app is launched. The desired application is launched, and the application operation screen appears.



Displays the main menu of the WebLink source screen.

TIPS

- If you connect your device to this product while a WebLink compatible application is already running, the application operation screen will appear on this product.
- Check the Bluetooth connection between the mobile device and this unit if there is no sound output from this unit (page 13).

USB Mirroring

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

NOTES

- The supported finger gestures may vary depending on the application for the smartphone.
- To use USB Mirroring, you must first install the application on the smartphone.
- Be sure to read Using app-based connected content (page 57) before you perform this operation.

WARNING

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

Using USB Mirroring

Important

- Pioneer is not responsible for content or functions accessed via USB Mirroring, which are the responsibility of the application and content providers.
- Availability of non-Pioneer content and services, including apps and connectivity, may change or discontinue without notice.
- When using USB Mirroring with the Pioneer product, available content and functions will be limited while driving.

Starting procedure

System requirement

Android 5.0 or higher


NOTES

- [Android Phone MSC] is deactivated to enable use of this function (page 47).
- The video playback capability depends on the connected Android device.

1 Unlock your smartphone and connect it to this product via USB.

Follow the instruction on the display when the message is come up on your connected smartphone.

TIP

You can start this source by touching , swiping left on the screen and touching [Mirroring] if the screen except for Mirroring appears after the USB connection.

NOTE

For USB connection, refer to the Quick start guide.

Apple CarPlay

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

Compatible iPhone models

For details about compatibility of iPhone models, refer to the following website.
<https://www.apple.com/ios/carplay>

NOTE

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

WARNING

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

Using Apple CarPlay

Important

Apple CarPlay may not be available in your country or region.

For details about Apple CarPlay, visit the following site:

<https://www.apple.com/ios/carplay>

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

Setting the driving position

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

1 Touch .

2 Touch .

3 Touch [Phone Connectivity Settings].


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

Starting procedure

Wired connection

- 1 Connect an Apple CarPlay compatible device to this product via USB.**
 The application screen appears.

TIP

You can start this source by touching  then touching [Apple CarPlay] if the screen except for Apple CarPlay appears after the USB connection.

Wireless connection

Before using Apple CarPlay wirelessly, perform the following:

- Attach the GPS aerial to this product.
- Turn on Apple CarPlay in the setting menu of your iPhone.


- 1 Turn on the Wi-Fi function and the Bluetooth function on the device.**
2 Display the Bluetooth setting menu on the device.

3 Touch .

4 Touch .

The device search screen appears.

5 Touch [Yes] to start searching.

Touch  if another device is already connected to the unit.

6 Touch a desired device on the screen.


NOTE

A pop-up message may appear if another device is already connected to the unit. Touch [OK] on the message.

- 7 Touch [Yes] to pair with the device.**
8 Perform the pairing operation by operating the device.
9 Touch [Yes] to activate the Apple CarPlay function.

Follow the on-screen instructions on the device to start the application.

TIPS

- When the USB connection with the other device has been made, the message that shows that the new device is available will appear. If you want to switch from the current device to the new one for use in the application, touch the pop-up message.
- You can use Siri function by touching  button once Apple CarPlay is activated.

NOTES

- For details on USB connection, refer to the Quick start guide.
- If five devices are already paired, the message confirming whether to delete the registered device is displayed. If you want to delete the device, touch [Agree]. If you want to delete other device, touch [Go To DeviceList] and delete the devices manually (page 12).
- If an Apple CarPlay compatible device has been connected and another screen is displayed, touch [Apple CarPlay] on the top menu screen to display the Application menu screen.
- Hands-free phoning via Bluetooth wireless technology is not available while Apple CarPlay is on. If Apple CarPlay is turned on during a call on a mobile phone other than an Apple CarPlay compatible device, the Bluetooth connection will be terminated after the call ends.

Android Auto™

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

Compatible Android devices

For details about compatibility of Android models, refer to the following website.
<https://support.google.com/androidauto>

For wireless connections

To wirelessly use Android Auto on your vehicle display, you need a compatible Android smartphone with an active data plan. You can check which smartphones are compatible at g.co/androidauto/requirements.

NOTES

- [Android Phone MSC] is deactivated to enable use of this function (page 47).
- The compatible finger gestures vary depending on the application for the smartphone.



WARNING

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

Using Android Auto



Important

Android Auto may not be available in your country or region.



For details about Android Auto, please refer to the Google support site:

<http://support.google.com/androidauto>

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

Setting the driving position

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


- 1 Touch .
- 2 Touch .
- 3 Touch [Phone Connectivity Settings].
- 4 Touch [Driving Position].
[Left]
Select for a left-hand drive vehicle.
[Right]
Select for a right-hand drive vehicle.

Starting procedure




Wired connection

- 1 Connect an Android Auto compatible device to this product via USB.
The application screen appears.

TIP

You can start this source by touching  then touching [Android Auto] if the screen except for Android Auto appears after the USB connection.

Wireless connection

- 1 Turn on the Wi-Fi function and the Bluetooth function on the device.
- 2 Display the connected Bluetooth devices list screen on the device.
- 3 Touch .
- 4 Touch .
- The device search screen appears.
- 5 Touch [Yes] to start searching.
Touch  if another device is already connected to the unit.
- 6 Touch a desired device on the screen.

NOTE


A pop-up message may appear if another device is already connected to the unit. Touch [OK] on the message.

- 7 Touch [Yes] to pair with the device.
- 8 Perform the pairing operation by operating the device.

9 Touch [Start] to start Android Auto.

The unit configures the connection then start the application.

TIP

You can use voice recognition function by touching  button once Android Auto is activated.

NOTES

- For details on USB connection, refer to the Quick start guide.
- If five devices are already paired, the message confirming whether to delete the registered device is displayed. If you want to delete the device, touch [Agree]. If you want to delete other device, touch [Go To DeviceList] and delete the devices manually (page 12).
- If Android Auto is turned on during a call on a mobile phone other than the Android Auto compatible device, the Bluetooth connection will switch to the Android Auto compatible device after the call.

AUX

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

CAUTION

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

NOTE

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


Starting procedure

- 1 Touch .
- 2 Touch [AUX].
The AUX screen appears.

Camera View

You can display the video image output by the device connected to video or camera input. For details, refer to the Quick start guide.



Starting procedure

- 1 Touch  then swipe left on the screen.
- 2 Touch [Camera View] for connected camera view.
The video image is displayed on the screen.

Settings

You can adjust various settings in the main menu.


Displaying the setting screen

- 1 Touch .
- 2 Touch .
- 3 Touch one of the following categories, then select the options.
 - System Settings (page 40)
 - Display Settings (page 43)
 - Audio & EQ Settings (page 44)
 - Wi-Fi Settings (page 19)
 - Bluetooth Settings (page 14)
 - Camera settings (page 45)
 - Phone Connectivity Settings (page 47)

System Settings





Menu Item	Description
[Choose Language]	Select the system language. NOTES <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.
[Date & Time]	Setting or adjusting the following time and clock display. <ul style="list-style-type: none"> • Date display format: [d/m/y] (day-month-year) or [m/d/y] (month-day-year) • Time display format: [12hour] or [24hour] • UTC (Universal Time Coordinated) time zone difference: UTC-12.00h to UTC+14.00h • Day-light saving time: [On] or [Off]
[Beep Tone]	Set off to disable the beep sound when the button is touched or the screen is touched.

Menu Item	Description
[Steering Wheel Control] [With Adapter], [W/o Adapter]	<p>Select [With Adapter] or [W/o Adapter] according to your wired remote control.</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 handbrake. Depending on your vehicle, this function may not work properly. In this case, contact your dealer or an authorised PIONEER Service Station. Please use a PIONEER wiring harness for each car model when [With Adapter] mode is engaged, otherwise select [W/o Adapter].
[Radio settings]	(page 22)
[Factory Reset]	<p>Touch [OK] 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 handbrake. The source is turned off and the Bluetooth connection is disconnected before the process starts. Before starting the restore process, disconnect any device that is connected to the USB port. Otherwise, some settings may not be restored correctly.
[Connection Status]	Check that the leads are properly connected between this product and vehicle.
[GPS Antenna]	<p>Displays the connection status of the GPS aerial ([OK] or [NOK]) and the reception sensitivity.</p> <p>NOTE</p> <p>If reception is poor, change the installation position of the GPS aerial.</p>
[Positioning Status]	Displays the positioning status (3D positioning, 2D positioning, or no positioning), the number of satellites used for positioning (orange), and the number of satellites that have received signals (yellow). If signals from more than six satellites are received, the current location can be measured.







Menu Item	Description
[Installation]	<p>Indicates whether the inertial navigation is successfully learned. If the learning is successful, [OK] will appear. If the learning is not successful or due to failure after the learning is successful, [NOK] will appear.</p> <p>NOTE If this product is not firmly fixed into place or the speed pulse wire is not connected or properly connected, [NOK] is displayed due to the learning failure.</p>
[Speed Pulse]	<p>The speed pulse value detected by this product is shown.</p> <p>NOTE Check that the speed pulse wire is properly connected if [0] is still displayed while driving.</p>
[Back Signal]	<p>When the gearstick is shifted to "R" (reverse position), the signal switches to [High] or [Low]. The signal displayed varies depending on the vehicle.</p>
[System Information]	<p>Displaying and updating the firmware version.</p> <p> CAUTION</p> <ul style="list-style-type: none"> • The USB storage device for updating must contain only the correct update file. • Never turn this product off, disconnect the USB storage device while the firmware is being updated. • You can only update the firmware when the vehicle is stopped and the handbrake is engaged. <ol style="list-style-type: none"> 1 Download the firmware update files into your computer. 2 Connect a blank (formatted) USB storage device to your computer then locate the correct update file and copy it onto the USB storage device. 3 Connect the USB storage device to this product (page 23). 4 Display the [System Settings] screen (page 40). 5 Touch [System Information]. 6 Touch [Update]. New firmware version information is displayed. 7 Touch [Update]. Follow the on-screen instructions to finish updating the firmware. <p>NOTES</p> <ul style="list-style-type: none"> • This product will reset automatically after the firmware update is completed if the update is successful. • If an error message appears on the screen, touch the display and perform the above steps again.

Menu Item	Description
[Licence]	Displaying the open source licence.

Display Settings

Menu Item	Description
[Lighting Detect]	Activate to set the dimmer function on automatically when the head lamps of the vehicle are lit.
[Day Illumination]	Touch [+]/[-] to adjust the brightness of the display in the day time.
[Night Illumination]	Touch [+]/[-] to adjust the brightness of the display in the night time.
[Illumination]	Select an illumination colour from the preset list.
[Wallpaper]	Touch the wall paper from the preset items in this product or original pictures via the external device and touch [Apply]. 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. You can set your favourite screen from the connected USB device by touching and sliding the bottom of screen to the right.
	Select the background display image of the connected USB storage device. 1 Connect the USB storage device to this product (page 23). 2 Touch . 3 Select the desired image.
 (custom)	Displays the background display image imported from the USB storage device.
 (off)	Hides the background display.

Audio & EQ Settings

Menu Item	Description
[Fader/Balance]	Touch  or  to adjust the front/rear speaker balance. Set [Front] and [Rear] to [0] when using a dual speaker system. Touch  or  to adjust the left/right speaker balance. TIP You can also set the value by dragging the point on the displayed table.
[Subwoofer/Crossover]	
[Subwoofer]	Select enable or disable rear subwoofer output from this product.
[Front HPF]	Adjust the speaker output level of the listening position by touching [+]/[-].
[Rear HPF]	
[Subwoofer LPF]	
[EQ] [Super Bass] [Powerful] [Natural] [Vocal] [Flat] [Custom]	Select or customise the equaliser curve. Select a curve that you want to use as the basis of customising then touch the frequency that you want to adjust. TIP If you make adjustments when a curve [Super Bass], [Powerful], [Natural], [Vocal], or [Flat] is selected, the equaliser curve settings will be changed to [Custom] mandatorily.
[Volume] [Main Volume] [Ring Volume] [Talking Volume] [Navi/Voice Volume] [TA Volume]	Adjust the volume level by touching [+]/[-].
[Speaker Level] Types of speaker [Front Left] [Front Right] [Rear Left] [Rear Right] [Subwoofer]	Adjust the speaker output level of the listening position. 1 Touch  or  to adjust the selected speaker output level. NOTE [Subwoofer] is available when [Subwoofer] in the [Subwoofer/Crossover] setting is activated.
[Loudness] [Off] [Low] [Mid] [High]	Compensates for deficiencies in the low-frequency and high-frequency ranges at low volume.
[Bass Boost] [0] to [6]	Adjust the bass boost level.

Camera settings

A separately sold rear view camera is required for utilising 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 gearstick 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 top menu screen (page 11).

NOTE

To set the rear view camera as the camera for Camera View mode, activate [Rear Viewing Camera Input] (page 45).



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 gearstick is moved to REVERSE (R) from another position.

Menu Item	Description
[Rear Viewing Camera Input]	Setting rear view camera activation.
[Camera View] [Normal] [Reverse]	Select the way the screen image of a camera appears.
[Parking Assist Guide]	You can set whether to display the parking assist guidelines on the rear view camera images when backing up your vehicle.

Menu Item	Description
[Parking Assist Guide Adjust]	<ol style="list-style-type: none"> <li data-bbox="373 110 938 161">1 Adjusting the guidelines by dragging or touching ▲/▼/◀/▶ on the screen. <li data-bbox="373 161 729 190">2 Touch [OK] to finish the settings. <p data-bbox="415 205 446 227">TIP</p> <p data-bbox="415 234 713 256">Touch [Reset] to reset the settings.</p> <p data-bbox="379 273 539 310">⚠ CAUTION</p> <ul data-bbox="373 317 948 557" style="list-style-type: none"> <li data-bbox="373 317 930 365">• When adjusting the guidelines, be sure to park the vehicle in a safe place and apply the handbrake. <li data-bbox="373 365 925 413">• Before getting out of the car to place the markings, be sure to turn the ignition switch off (ACC OFF). <li data-bbox="373 413 948 511">• The range projected by the rear view camera is limited. Also, the vehicle width and distance guidelines displayed on the rear view camera image may differ from the actual vehicle width and distance. (The guidelines are straight lines.) <li data-bbox="373 511 907 557">• The image quality may deteriorate depending on the usage environment, such as at night or in dark surroundings. <p data-bbox="379 573 456 595">NOTES</p> <ul data-bbox="373 602 948 821" style="list-style-type: none"> <li data-bbox="373 602 948 650">• This setting is available only when you stop your vehicle in a safe place and apply the handbrake. <li data-bbox="373 650 948 723">• Using packing tape or similar tape place markings as shown below before setting up the guidelines so that the guidelines can be overlaid to the markings. <li data-bbox="373 723 948 821">• Install the rear view camera as near the centre of the vehicle as possible, and do not install it too low. Otherwise, the guideline comes on the edge of the screen, preventing the guideline from being adjusted. <div data-bbox="379 843 889 1137"> </div>
[Rear View Camera Adjustment]	<p data-bbox="373 1151 822 1173">Adjust following menu, touch [+]/[-] to adjust.</p> <p data-bbox="379 1191 446 1212">NOTE</p> <p data-bbox="373 1220 938 1268">This setting is available only when you stop your vehicle in a safe place and apply the handbrake.</p>

Menu Item	Description
[Brightness] [-10] to [+10]	Adjust the black intensity.
[Contrast] [-10] to [+10]	Adjust the contrast.
[Colour] [-10] to [+10]	Adjust the colour saturation.

Phone Connectivity Settings

Menu Item	Description
[Android Phone MSC]	Set the USB connection mode for your smartphone (Android) to MSC (Mass Storage Class). NOTE This setting is not available when Android device or USB storage device is connected to this product via USB.
[Driving Position] [Right] [Left]	Setting the driving position. <ul style="list-style-type: none"> • Apple CarPlay (page 32) • Android Auto (page 35)

Other functions

Setting the clock display

You can set the time format, time zone, daylight saving, and the date format. However, the time and date are automatically adjusted by the GPS aerial and cannot be adjusted by the user.

1 Touch the current time on the screen.

2 Set the following items in the settings.

- The date display format:
[d/m/y] (day-month-year) or [m/d/y] (month-day-year)
- The time display format:
[12hour] or [24hour]
- The UTC (Universal Time Coordinated) time zone difference:
UTC-12.00h to UTC+14.00h
- Day-light saving time:
[On] or [Off]

You can also configure these items in [Date & Time] (page 40).

Restoring this product to the default settings

You can restore settings or recorded content to the default settings from [Factory Reset] in the [System Settings] menu (page 41).


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 authorised 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.
 - Touch  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 handbrake lead is not connected or the handbrake is not applied.
 - Connect the handbrake lead correctly, and apply the handbrake.
- The handbrake interlock is activated.
 - Park your vehicle in a safe place and apply the handbrake.

The audio or video skips.

- This product is not firmly secured.
 - Secure this product firmly.

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

- Cables are not connected correctly.
 - Connect the cables correctly.

iPhone cannot be operated.

- The iPhone is frozen.
 - Reconnect the iPhone with the USB interface cable for iPhone.
 - Update the iPhone software version.
- An error has occurred.
 - Reconnect the iPhone with the USB interface cable for 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 iPhone software version.
- Cables are not connected correctly.
 - Connect the cables correctly.

Sound from the iPhone cannot be heard.

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


Problems with the phone screen

Dialling is impossible because the touch panel keys for dialling are inactive.

- Your phone is out of range for service.
 - Retry after re-entering the range for service.
- The connection between the mobile phone and this product cannot be established.
 - Perform the connection process.

Problems with Application screen

A black screen is displayed.

- While operating an application, the application was ended on the smartphone side.
 - Touch  to display the top menu screen.
- The smartphone OS may be awaiting screen operation.
 - Stop the vehicle in a safe place and check the screen on the smartphone.

The screen is displayed, but operation does not work at all.

- An error has occurred.
 - Park your vehicle in a safe place, and then turn off the ignition switch (ACC OFF). Subsequently, turn the ignition switch to on (ACC ON) again.

The smartphone was not charged.

- Charging stopped because the temperature of the smartphone rose due to prolonged use of the smartphone during charging.
 - Disconnect the smartphone from the cable, and wait until the smartphone cools down.
- More battery power was consumed than was gained from charging.
 - This problem may be resolved by stopping any unnecessary services on the smartphone.

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 centre.

USB storage device

Unsupport USB device

- The connected USB device is not supported by this product.
 - Check the supported USB formats (page 60).

Unsupport USB hub device

- The connected USB hub is not supported by this product.
 - Directly connect the USB storage device to this product.

This content cannot be played.

- There is no playable file in the USB storage device.
 - Check that the files in the USB storage device are compatible with this product.
- This type of file is not supported on this product.
 - Select a file that can be played.
- Security for the connected USB storage device is enabled.
 - Follow the USB storage device instructions to disable security.
- This product cannot recognise the connected USB storage device.
 - Disconnect the device and replace it with another USB storage device.

Audio Format not supported

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

No Data

- There is no playable file in the USB storage device.
 - Check that the files in the USB storage device are compatible with this product.

- Security for the connected USB storage device is enabled.
- Follow the USB storage device instructions to disable security.

USB Mirroring

Autolink can't connect right now. When it's safe to do so, check your Android phone.

- The connection is not successfully established.
- Stop your vehicle in a safe place and apply the handbrake. Perform the operations according to the following situations.
 - When the pop-up message appears on your mobile device, follow the message.
 - When the pop-up message does not appear on your mobile device, forcibly cancel download of the application, and then perform the connection with the unit again.

Mobile phone is standby, any touch wake up!

- The screen of the mobile device connected to the unit is turned off.
- Unlock your mobile device.

Apple CarPlay

Connection failed.

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

Please attach the GPS antenna in order to use Apple CarPlay over Wireless.

- This unit cannot properly detect the GPS signal from the GPS aerial.
- Check the GPS aerial installation and connection. For details about the connection and installation, refer to the Quick start guide.

Android Auto

- **Connect a USB cable to get started.**
- **Your phone does not support wireless, check your phone.**

- The connected device is not compatible with Android Auto.
- Check if the device is compatible with Android Auto (page 35).
- Android Auto app is not installed on the device.
- Install the Android Auto app on the device.

Connection failed. Please check your phone to confirm connection.

- Wi-Fi connection failed and Android Auto app did not start.
- Check if the Wi-Fi function on the device is turned on.

Android Auto has disconnected.

- Wi-Fi function on the device or the unit is turned off.
- Turn on the Wi-Fi function on the device and the unit when you use Android Auto (page 19).

To use Android Auto, please stop your car and follow the instructions on your phone

- The default settings are displayed on the screen of the Android Auto compatible device or images are not output from the Android Auto compatible device.

- Park your vehicle in a safe place, and follow the instructions displayed on the screen. If the error message is still displayed after performing on-screen instructions, please reconnect the device.

Camera View & AUX

No Video Signal

- There is no video signal input.
 - Confirm whether the connection with the unit is established and there is an output from the external device.

Bluetooth

Handsfree device is not connected

- The phone's Bluetooth HFP is not connected and cannot make calls.
 - Make a Bluetooth connection (page 13).

Phone book access is not authorized

- The Bluetooth PBAP of the mobile phone is not connected and the phone book cannot be downloaded.
 - Make a PBAP connection. You need to operate your phone and allow the unit to access the contact information on your phone. When the related information pops up on your phone, follow the pop-up message.

Others

Overcurrent caution on USB.

- Overcurrent is detected.
 - Check the USB connection. Perform one of the following operations to fix the situation.
 - Turn off the ignition switch (ACC OFF) and then turn the ignition switch to on (ACC ON) again.

- Power the unit off and then power it on again.
- Disconnect the (+) battery cable and then connect it again.

Overload Caution on AMP.

- An amplifier overload is detected.
 - Check the amp connection. Perform one of the following operations to fix the situation.
 - Turn off the ignition switch (ACC OFF). After 9 seconds or more, turn the ignition switch to on (ACC ON) again.
 - Disconnect the (+) battery cable and then connect it again.

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 recognise 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 60).
- 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 accelerator.
- 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

- Copyright protected files cannot be played back.

Media compatibility chart

General

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

USB storage device

CODEC FORMAT	MP3, WMA, WAV, AAC, FLAC, AVI, MPEG-PS, MP4, 3GP, MKV, MOV, ASF, FLV, M4V, MPEG-TS
--------------	--

MP3 compatibility

- Ver. 2.x of ID3 tag is prioritised 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

SAMPLING FREQUENCY	8 kHz to 48 kHz
TRANSMISSION RATE	CBR (8 kbps to 320 kbps)/VBR
ID3 TAG	ver.1.0/1.1/2.2/2.3/2.4

WMA compatibility

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

SAMPLING FREQUENCY	32 kHz to 48 kHz
TRANSMISSION RATE	CBR (8 kbps to 320 kbps)/VBR

WAV compatibility

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

SAMPLING FREQUENCY	16 kHz to 48 kHz
QUANTIZATION BIT RATE	8 bit, 16 bit

AAC compatibility

- This product plays back AAC files encoded by iTunes.

SAMPLING FREQUENCY	8 kHz to 48 kHz
TRANSMISSION RATE	CBR (16 kbps to 320 kbps)

FLAC compatibility

SAMPLING FREQUENCY	8 kHz to 192 kHz
QUANTIZATION BIT RATE	8 bit, 16 bit, 24 bit

USB storage device

EXTENSION	.avi
MAX RESOLUTION	720 × 576

Video files compatibility

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

.avi

Compatible video codec	MPEG4, H.264
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

.mpg/.mpeg

Compatible video codec	MPEG2
Maximum resolution	720 × 576
Maximum frame rate	30 fps

.mp4

Compatible video codec	MPEG4, H.264
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

.3gp

Compatible video codec	H.264
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

.mkv

Compatible video codec	MPEG4, H.264, VC-1
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

.mov

Compatible video codec	MPEG4, H.264
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

.flv

Compatible video codec	H.264, H.263
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

.wmv/.asf

Compatible video codec	VC-1
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

.m4v

Compatible video codec	H.264
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

.ts

Compatible video codec	MPEG4, H.264, MPEG2
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

.m2ts

Compatible video codec	H.264, MPEG2
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

.mts

Compatible video codec	H.264
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

Example of a hierarchy**NOTE**

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

Bluetooth

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FLAC

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Foundation

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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.

WebLink

WebLink™ is a trademark of Abalta Technologies, Inc.

Google, Android, Google Play

Google, Android and Google Play are trademarks of Google LLC.

Android Auto

androidauto

Android Auto is a trademark of Google LLC.

Detailed information regarding connected iPhone devices

- Pioneer accepts no responsibility for data lost from an iPhone, even if that data is lost while using this product. Please back up your iPhone data regularly.
- Do not leave the iPhone in direct sunlight for extended amounts of time. Extended exposure to direct sunlight can result in iPhone malfunction due to the resulting high temperature.
- Do not leave the iPhone in any location with high temperatures.
- Firmly secure the iPhone when driving. Do not let the iPhone fall onto the floor, where it may become jammed under the brake or accelerator.
- For details, refer to the iPhone manuals.

iPhone, Siri, 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.

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Works with Siri through the microphone.

App Store

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iOS

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iTunes

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

Apple Music

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

Apple CarPlay



Apple CarPlay is a trademark of Apple Inc.
Use of the Apple CarPlay logo means that a vehicle user interface meets Apple performance standards. Apple is not responsible for the operation of this vehicle or its compliance with safety and

regulatory standards. Please note that the use of this product with iPhone or iPod may affect wireless performance.

Compatible iPhone models

- iPhone 12 Pro Max
- iPhone 12 Pro
- iPhone 12
- iPhone 12 mini
- iPhone SE (2nd generation)
- iPhone 11 Pro Max
- iPhone 11 Pro
- iPhone 11
- iPhone XR
- iPhone XS Max
- iPhone XS
- iPhone X
- iPhone 8
- iPhone 8 Plus
- iPhone 7
- iPhone 7 Plus
- iPhone SE (1st generation)
- iPhone 6s
- iPhone 6s Plus
- iPhone 6
- iPhone 6 Plus
- iPhone 5s

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

Using app-based connected content

Important

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

- Latest version of the Pioneer compatible connected content application(s) for the smartphone, available from the service

provider, downloaded to your smartphone.

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

Limitations:

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

available functions determined by the App providers.

- Availability of USB Mirroring, WebLink, Apple CarPlay and Android Auto functionalities is determined by the App provider, and not determined by Pioneer.
- USB Mirroring, WebLink, Apple CarPlay and Android Auto allow access to applications other than those listed (subject to limitations while driving), but the extent to which content can be used is determined by the App providers.

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 59.
- 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 mobile phone, keep the aerial of the mobile phone away from the LCD screen to prevent disruption of the video in the form of disturbances such as spots or coloured 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 authorised Pioneer Service Station.

Specifications

General

Rated power source:

14.4 V DC (10.8 V to 15.1 V allowable)

Earthing system:

Negative type

Maximum current consumption:

10.0 A

Dimensions (W × H × D):

Chassis (D):

178 mm × 100 mm × 125 mm

Nose:

171 mm × 97 mm × 2 mm

Weight:

1.1 kg

Display

Screen size/aspect ratio:

6.75 inch wide/16:9 (effective display area: 151.8 mm × 79.68 mm)

Pixels:

800 (Width) × 480 (Height) × 3 (RGB)

Display method:

TFT Active matrix driving

Colour system:PAL/NTSC/PAL-M/PAL-N/SECAM
compatible**Temperature range:**

-10 °C to +60 °C

Audio**Maximum power output:**

50 W × 4

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 allowable)

Preout output level (max): 2.0 V**Equaliser (13-Band Graphic Equaliser):****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/32 Hz/40 Hz/50 Hz/63 Hz/80 Hz/
100 Hz/125 Hz/160 Hz/200 Hz/250 Hz**Subwoofer/LPF:****Frequency:**25 Hz/32 Hz/40 Hz/50 Hz/63 Hz/80 Hz/
100 Hz/125 Hz/160 Hz/200 Hz/250 Hz**Bass boost:**

Gain: +12 dB to 0 dB (2 dB/step)

Speaker level:

+10 dB to -24 dB (1 dB/step)

USB**USB standard spec:**USB 1.1, USB 2.0 full speed, USB 2.0 high
speed**Max current supply:** 1.5 A**USB Class:**

MSC (Mass Storage Class)

File system: FAT16, FAT32, NTFS

<USB audio>

MP3 decoding format:

MPEG-1 & 2 & 2.5 Audio Layer 3

WMA decoding format:

Ver. 7, 8, 9, 9.1, 9.2 (2 ch audio)

AAC decoding format:MPEG-4 AAC (iTunes encoded only) (Ver.
12.5 and earlier)**FLAC decoding format:**

Ver. 1.3.0 (Free Lossless Audio Codec)

WAV signal format:

Linear PCM

Sampling frequency:

Linear PCM:

16 kHz/22.05 kHz/24 kHz/32 kHz/44.1
kHz/48 kHz

<USB image>

JPEG decoding format:

.jpeg, .jpg

Pixel Sampling: 4:2:2, 4:2:0

Decode Size:

MAX: 5 000 (H) × 5 000 (W)

MIN: 32 (H) × 32 (W)

(Maximum file size: 6 MB)

PNG decoding format:

.png

Decode Size:

MAX: 576 (H) × 720 (W)

MIN: 32 (H) × 32 (W)

BMP decoding format:

.bmp

Decode Size:

MAX: 936 (H) × 1 920 (W)

MIN: 32 (H) × 32 (W)

<USB video>

H.264 video decoding format:Base Line Profile, Main Profile, High
Profile**H.263 video decoding format:**

Base Line Profile 0/3

VC-1 video decoding format:Simple Profile, Main Profile, Advanced
Profile**AVI video decoding format****MPEG4 video decoding format:**

Simple Profile, Advanced Simple Profile

MPEG1, 2 video decoding format:

Main Profile

Quick Time video decoding format

Matroska video decoding format
TS Stream video decoding format

Bluetooth

Version:

Bluetooth 4.2 certified

Output power:

+4 dBm Max. (Power class 2)

Frequency band(s):

2 402.0 MHz to 2 480.0 MHz

FM tuner

Frequency range:

76.0 MHz to 108.0 MHz (South America),

87.5 MHz to 108.0 MHz (Australia)

Usable sensitivity:

13 dBf (1.1 μ V/75 Ω , mono, S/N: 30 dB)

Signal-to-noise ratio:

50 dB (IEC-A network)

AM tuner

Frequency range:

530 kHz to 1 640 kHz (10 kHz), 531 kHz to

1 602 kHz (9 kHz)

Usable sensitivity:

28 μ V (S/N: 20 dB)

Signal-to-noise ratio:

45 dB (IEC-A network)

Wi-Fi

Frequency channel:

151 ch (5 GHz)

Security:

WPA2 (Personal), WPA3 (Personal)

Output power:

+13.2 dBm Max (5 GHz)

GPS

GNSS receiver

System:

GPS L1C/Ac, SBAS L1C/A, GLONASS

L1OF, Galileo E1B/C

SPS (Standard Positioning Service)

Reception system:

64 channel Multi-channel reception
system

Reception frequency:

1 575.42 MHz/1 602 MHz

Sensitivity:

-140 dBm (typ)

Frequency:

Approx. once per second

GPS aerial

Aerial:

Micro strip flat aerial/right-handed
helical polarization

Aerial cable:

3.55 m

Dimensions (W × H × D):

47 mm × 16.2 mm × 55 mm

Weight:

104.0 g

NOTE

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

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