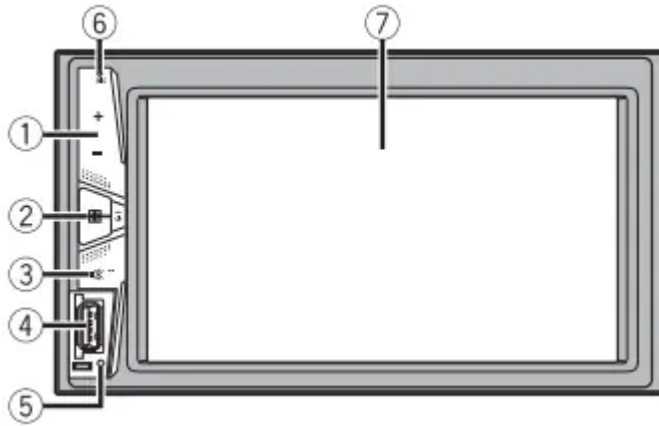


## Parts and controls

### Main unit



①	VOL (+/-)	
②	■ (HOME)	Press to display the top menu screen. Press and hold to power off. To power back on, press any button.
③	■ (MUTE)	Press and hold to display off.
④	USB port	
⑤	RESET	Press to reset the microprocessor (page 5).
⑥	Microphone	The Bluetooth microphone is built in the grill of the product. Speak toward the microphone when you make a call. <b>NOTE</b> Depending on the usage condition of the vehicle such as the wind from the air conditioner when using the hands-free function, it may be difficult for the other party to hear your voice at their end.
⑦	LCD screen	

## Basic operation

### Resetting the microprocessor

– 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.

## Remote control

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

## 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

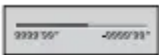
	<b>Switches between playback and pause.</b>
 	

	<b>Skips files/tracks/chapters forward or backward.</b> 
	<b>Performs fast reverse or fast forward.</b> Touch again to change the playback speed.
	<b>Stops playback.</b>
<b>Text information</b>	<b>When all characters are not displayed, the rests are automatically scrolled on the display. The characters are displayed by touching the text information.</b> <b>NOTE</b> This function is available only when you stop your vehicle in a safe place and apply the parking brake.
	<b>Returns to the previous screen.</b>
	<b>Close the screen.</b>

### Operating list screens








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

### Operating the time bar

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

## Top menu screen



	<b>Source icons</b>
	<b>Setting the time and date (page 19)</b>
	<b>Settings (page 14) and Favorite menu (page 18)</b>
	<b>Hands-free phoning (page 8)</b>
	<b>AV source off</b>
	<b>If you select , you can turn off almost all functions.</b> The unit turns on by operating following functions: <ul style="list-style-type: none"> <li>• An incoming call is received (only for hands-free phoning via Bluetooth).</li> <li>• A rear view camera image is input when the vehicle is in reverse.</li> <li>• A button on this unit is pressed.</li> <li>• The ignition switch is turned off (ACC OFF), then turned on (ACC ON).</li> </ul>

## 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 8).
- 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, during connection or disconnected.
- Before connecting from the Bluetooth device, make sure that the connection of this product and other Bluetooth device is disconnected.



**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 8). 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
<b>[Connection]</b>	<p>Connect, disconnect, or delete registered Bluetooth device manually.            Touch  to delete registered device.            To connect a registered Bluetooth device manually, touch the name of the device.            To disconnect the device, touch the name of the connected device in the list.</p> <p><b>NOTE</b>            Connect the Bluetooth device manually in the following cases:</p> <ul style="list-style-type: none"> <li>• Two or more Bluetooth devices are registered, and you want to manually select the device to be used.</li> <li>• You want to reconnect a disconnected Bluetooth device.</li> <li>• Connection cannot be established automatically for some reason.</li> </ul>
<b>[Auto Connect]</b> [On] [Off]	<p>Select [On] to connect the last connected Bluetooth device automatically.</p> <p><b>NOTE</b>            If two Bluetooth devices were connected the last time, the two devices are connected to this product automatically in the order that they are registered in the device list.</p>
<b>[Visibility]</b> [On] [Off]	Select [On] to make this product visible to the other device.
<b>[PIN Code Input]</b>	<p>Change the PIN code for Bluetooth connection.            The default PIN code is "0000".</p> <ol style="list-style-type: none"> <li>1 Touch [0] to [9] to input the pin code (up to 8 digits).</li> <li>2 Touch .</li> </ol>
<b>[Device Information]</b>	Displaying the device name and address of this product.
<b>[Bluetooth Memory Clear]</b>	Touch [Clear] then [OK] to clear the Bluetooth memory.

## 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 7).
- 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.
- The hands-free phoning is also switched when the connected device via Bluetooth is switched.

## Hands-free phoning

To use this function you need to connect your cellular phone to this product via Bluetooth in advance (page 7).











**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><b>The following items are displayed.</b></p> <ul style="list-style-type: none"> <li>• Name of the current cellular phone</li> <li>• List number of the current cellular phone</li> <li>• Reception status of the current cellular phone</li> <li>• Battery status of the current cellular phone</li> </ul>
	<p><b>Initial searches the phone book.</b> Touch the list area to stop initial search.</p>
	<p><b>Using preset dial list (page 9)</b></p>
	<p><b>Using phone book</b> Select a contact from the phone book. Touch the desired name on the list then select the phone number.</p> <p><b>TIPS</b></p> <ul style="list-style-type: none"> <li>• The contacts on your phone will be automatically transferred to this product.</li> <li>• Update the phone book manually.</li> </ul>
	<p><b>Using call history</b> Make a phone call from the received call , dialed call , or missed call .</p>
	<p><b>Direct phone number input</b> Enter the number keys to enter the phone number then touch  to make a call.</p>

► **To end the call**

1. Touch .

## 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.

- 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 11)
- Connecting via USB (page 11)

### 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 7).
2. Press.
3. Touch compatible desired source.

### Connecting via USB

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

- USB storage device

1. Connect a smartphone with this product via USB (page 21)

2. Press .

3. Touch compatible desired source

## Radio

### Starting procedure





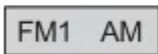




1. Press .

2. Touch [Radio].

The Radio screen appears.

### Basic operation

#### Description of Radio screen

	 <b>Recalls the preset channel stored to a key from memory.</b>
	 <b>Stores the current broadcast frequency to a key.</b>
	<b>Displays the preset channel list.</b> Select an item on the list ([1] to [6]) to switch to the preset channel.
	<b>Selects the FM1, FM2, FM3, or AM band.</b>
	<b>Performs BSM (best stations memory) function (page 12).</b>
	 <b>Manual tuning</b>
	 <b>Seek tuning or non stop seek tuning</b> 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].

## 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 14)
-  Theme settings (page 17)
-  Audio settings (page 17)
-  Video settings (page 18)
-  Bluetooth settings (page 7)

### System settings

The menu items vary according to the source.

#### [AV Source Settings]

Menu Item	Description
[Radio Settings]	(page 12)
[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 14).

#### [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 10).

**NOTE** To set the rear view camera as the camera for Camera View mode, set [Back Camera Input] to [On] (page 15)

### [System Language]

Menu Item	Description
[System Language]	Select the system language. <b>NOTES</b> <ul style="list-style-type: none"><li>• If the embedded language and the selected language setting are not the same, the text information may not display properly.</li><li>• Some characters may not be displayed properly.</li></ul>

### [Restore Settings]

Menu Item	Description
[Restore Settings]	Touch [Restore] to restore the settings to the default settings. <b>CAUTION</b> Do not turn off the engine while restoring the settings. <b>NOTES</b> <ul style="list-style-type: none"><li>• This setting is available only when you stop your vehicle in a safe place and apply the parking brake.</li><li>• The source is turned off and the Bluetooth connection is disconnected before the process starts.</li></ul>

### [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

## Theme settings

Menu Item	Description
<b>[Background]</b> [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.
<input type="checkbox"/> OFF (off)	Hides the background display.
<b>[Theme]*</b>	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 set to mute.

Menu Item	Description
<b>[Graphic EQ]</b> [Super Bass] [Powerful] [Natural] [Vocal] [Flat] [Custom1] [Custom2]	Select or customize the equalizer curve. Select a curve that you want to use as the basis of customizing then touch the frequency that you want to adjust. <b>TIPS</b> <ul style="list-style-type: none"> <li>• If you make adjustments when a curve [Super Bass], [Powerful], [Natural], [Vocal], or [Flat] is selected, the equalizer curve settings will be changed to [Custom1] mandatorily.</li> <li>• If you make adjustments when the [Custom2] curve is selected for example, the [Custom2] curve will be updated.</li> <li>• [Custom1] and [Custom2] curves can be created common to all sources.</li> </ul>
<b>[Preout]</b> [Rear] [Subwoofer]	Select the rear speaker output. This function is available when the source is off.

Menu Item	Description
<b>[Fader/Balance]</b>	<p>Touch ▲ or ▼ to adjust the front/rear speaker balance. Set [Front] and [Rear] to [0] when using a dual speaker system.</p> <p>Touch ◀ or ▶ to adjust the left/right speaker balance.</p> <p><b>TIP</b> You can also set the value by dragging the point on the displayed table.</p> <p><b>NOTE</b> Only the fader can be adjusted when [Rear] is selected as the speaker mode.</p>
<b>[Source Level Adjuster]</b> [-4] to [+4]	<p>Adjust the volume level of each source to prevent radical changes in volume when switching between sources other than FM.</p> <p>Touch ▲ or ▼ to adjust the source volume after comparing the FM tuner volume level with the level of the source.</p> <p><b>TIP</b> 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><b>NOTES</b></p> <ul style="list-style-type: none"> <li>• Settings are based on the FM tuner volume level, which remains unchanged.</li> <li>• This function is not available when the FM tuner is selected as the AV source.</li> </ul>
<b>[Subwoofer]</b> [On] [Off]	Select enable or disable subwoofer output from this product.
<b>[Speaker Level]</b> [Front Left] [Front Right] [Rear Left] [Rear Right] [Subwoofer] [Listening Position]	<p>Adjust the speaker output level of the listening position.</p> <ol style="list-style-type: none"> <li>1 Touch ◀ or ▶ to select the listening position then select the output speaker.</li> <li>2 Touch ◀ or ▶ to adjust the selected speaker output level.</li> </ol> <p><b>NOTE</b> For rear speaker, this function is available only when [Rear] is selected in [Preout].</p>
<b>[Subwoofer Settings]</b>	Select the subwoofer phase and LPF cut-off frequency (page 18).
<b>[Listening Position]</b> [Off] [Front Left] [Front Right] [Front] [All]	Select a listening position that you want to make as the center of sound effects.
<b>[BASS Boost]</b> [0] to [+6]	Adjust the bass boost level.
Menu Item	Description
<b>[Loudness]</b> [Off] [Low] [Mid] [High]	Compensates for deficiencies in the low-frequency and high-frequency ranges at low volume.

# 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 touchpanel 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.

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 Camera (page 22).
- 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 Camera (page 22)

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 touchpanel 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.

### **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 26).

- 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 26).

#### 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.

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## **DivX**

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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.

## Notice regarding video viewing

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