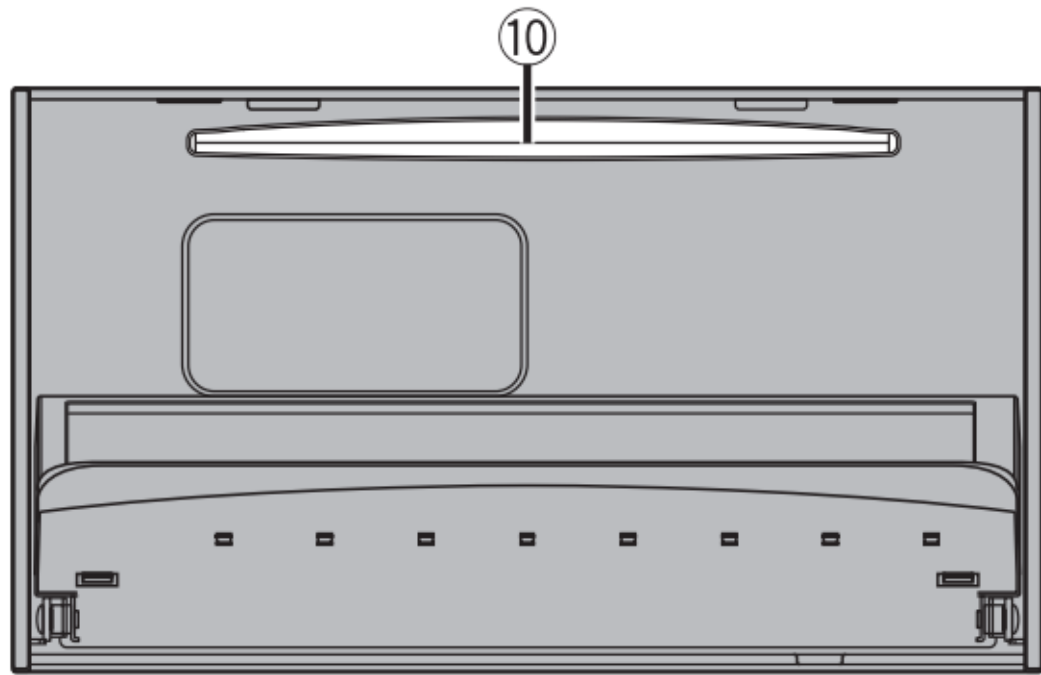
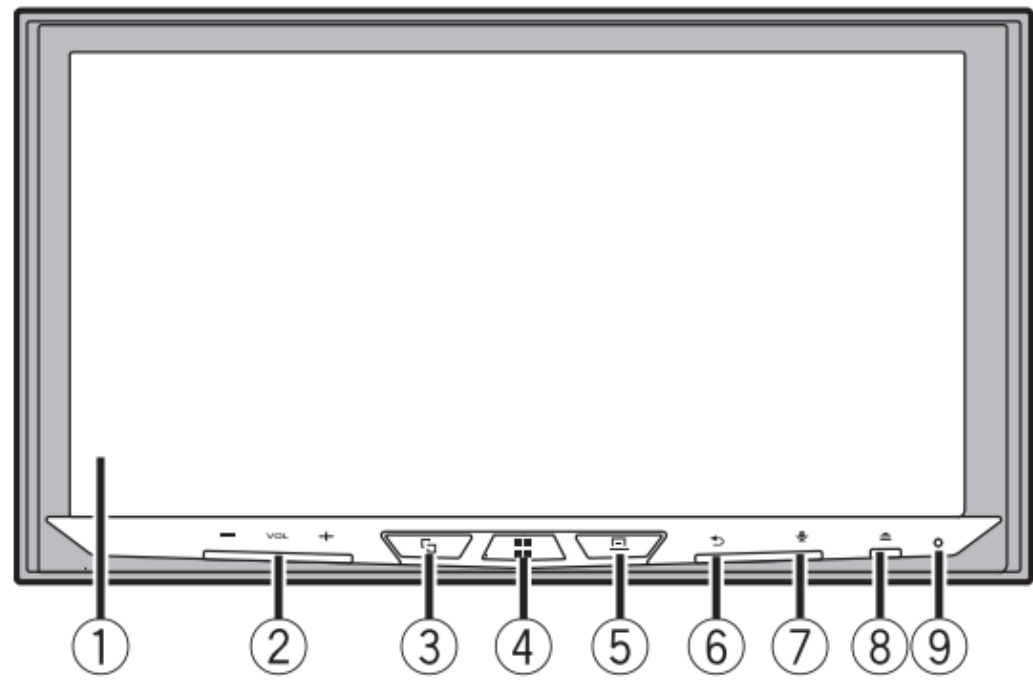


## Parts and controls

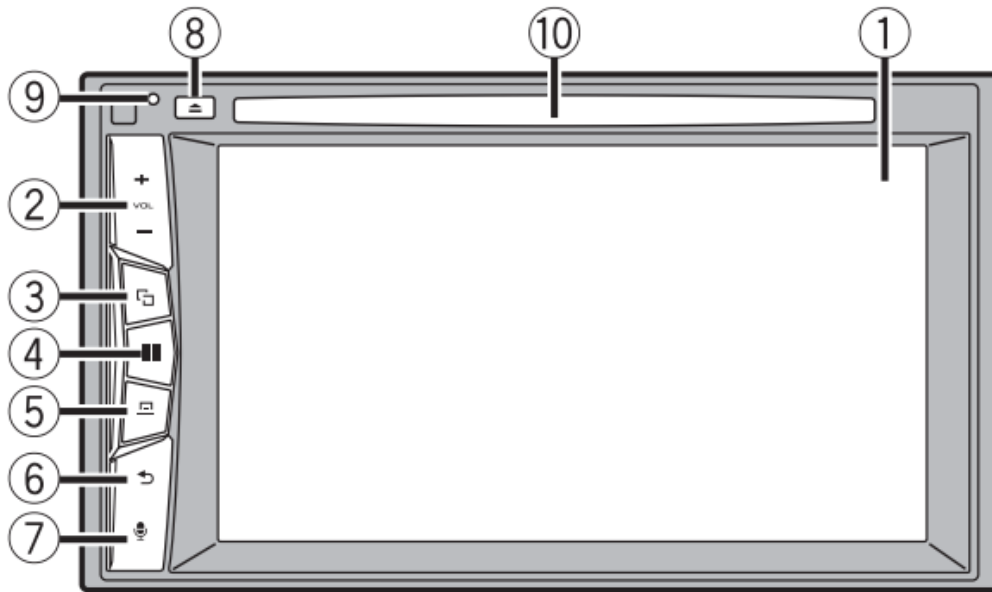
Main unit







601EX, 600EX



501EX, 500EX

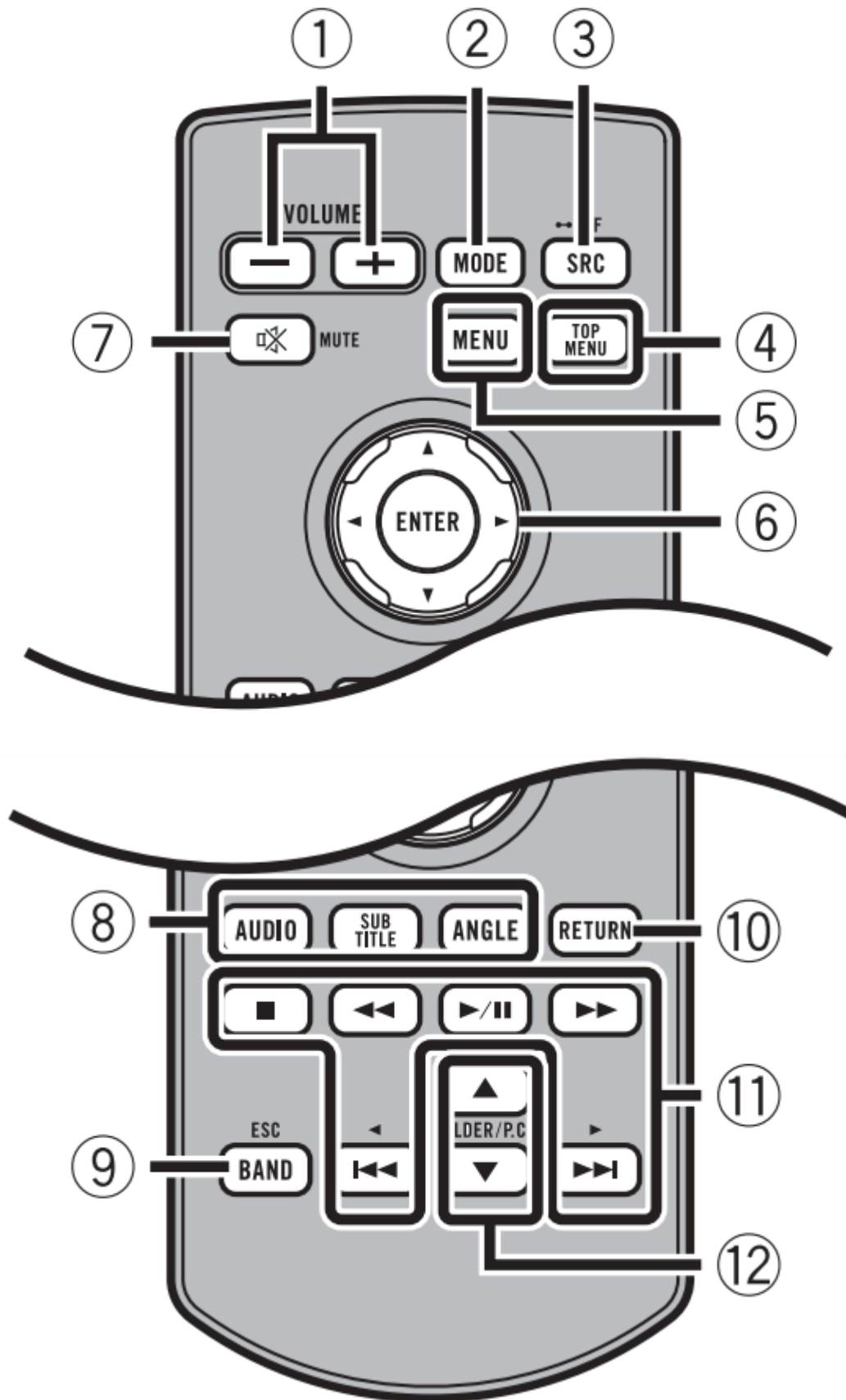








1	LCD screen	
2	VOL (+/-)	
3		<p>Press to switch between the Application screen and the AV operation screen.</p> <p>Press and hold to switch to the camera view mode.</p> <p>NOTE</p> <p>To activate the camera view mode with this button, set [Back Camera Input] to [On] or [AV Input] to [Camera]</p>
4		<p>Press to display the top menu screen.</p> <p>Press and hold to power off. To power back on, press any button</p>
5		<p>Press to display the menu bar (page 18).</p> <p>Press and hold to mute or unmute.</p>
6		<p>Press to display the top menu screen or back to previous screen.</p> <p>Press and hold to turn off the display.</p>
7		<p>Press to activate the voice recognition mode such as Siri® when the iPhone is connected to the unit via Bluetooth or USB.</p>
8		
9	RESET	Press to reset the microprocessor (page 14)
10	Disc-loading slot	Refer to Inserting and ejecting a disc (page 46).

## Remote Control

**601EX, 501EX**



1	Volume (+/-)	
2	MODE	<p>Press to switch between the Application screen and the AV operation screen. Press and hold to switch to the camera view mode.</p> <p>NOTE</p> <p>To activate the camera view mode with this button, set [Back Camera Input] to [On] or [AV Input] to [Camera] (page 88).</p>
3	SRC	<p>Press to cycle through all the available sources.</p> <p>Press and hold to turn the source off.</p>
4	TOP MENU	Press to return to the top menu during DVD playback.
5	MENU	Displays the DVD menu during DVD playback
6	Thumb pad	Use to select a menu on the DVD menu.
7	MUTE	
8	AUDIO SUBTITLE ANGLE	Press to change the audio language, subtitle language or viewing angle during DVD playback.
9	BAND/ESC	<p>Press to select the tuner band when tuner is selected as a source. Press to switch between media file types when playing the following types of data:</p> <ul style="list-style-type: none"> <li>• Disc</li> <li>• USB</li> </ul>
10	RETURN	Press to return to the specified point and start playback from there.
11		Press to pause or resume playback.

		<p>For audio: Press and hold to perform fast reverse or fast forward.</p> <p>For video: Press to perform fast reverse or fast forward.</p>
		<p>Press to return to the previous track (chapter) or go to the next track (chapter).</p> <p>Press to answer or end a call.</p>
		<p>Press to stop playback. If you resume playback, playback will start from the point where you stopped.</p> <p>Press the button again to stop playback completely.</p>
12	FOLDER/P.CH	<p>Press to select the next or previous title or folder.</p> <p>Press to recall radio station frequencies assigned to preset channel keys.</p> <p>Press to answer or end a call.</p>

### 600EX, 500EX

The remote control CD-R33 is sold separately.

## Basic operation

### Notes on using the LCD panel


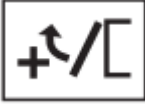
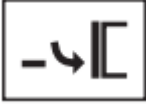

#### 601EX, 600EX

- Keep hands and fingers clear of this product when opening, closing, or adjusting the LCD panel. Be especially cautious of children's hands and fingers.
- Do not use with the LCD panel left open. It may result in injury in the event of an accident.
- Close the LCD panel before putting the vehicle in motion. Driving with the LCD panel open may damage the unit, and any backup camera image shown through the LCD panel will not be visible.
- Do not open or close the LCD panel forcefully. It may cause a malfunction.
- Do not operate this product until the LCD panel has completely opened or closed. If this product is operated while the LCD panel is opening or closing, the LCD panel may stop at that angle for safety.

- Do not place glass or can on the open LCD panel.

### Adjusting the LCD panel angle

**601EX, 600EX**

1. Press 
2. Touch  or  to adjust the angle of the LCD panel.
3. Touch .

Returns to the previous screen.

### Resetting the microprocessor

1. Turn the ignition switch OFF.
2. Press RESET with a pen tip or other pointed tools.

Settings and recorded contents are reset to the factory settings.

### Preparing the remote control

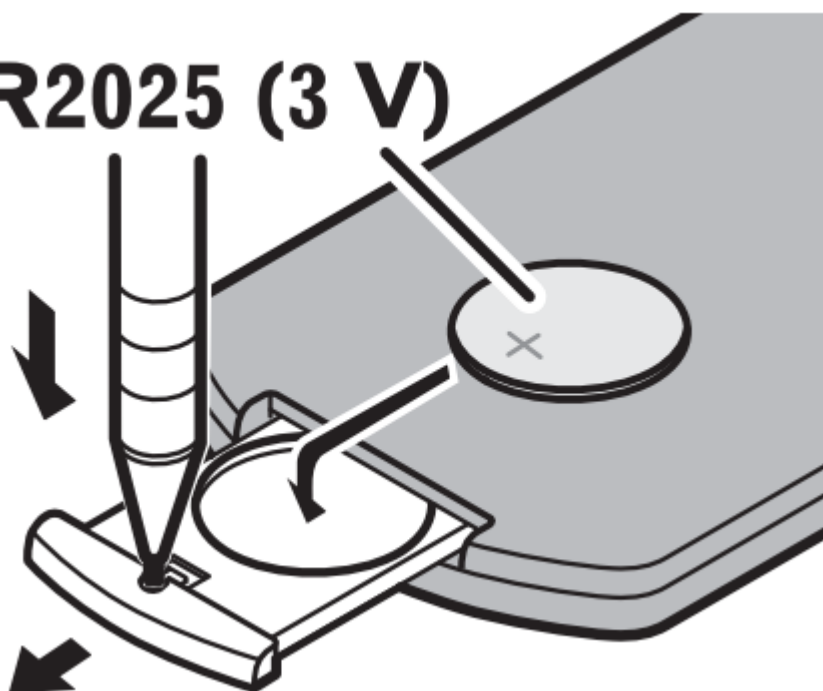
**601EX, 501EX**

Remove the insulation sheet before use.



How to replace the battery

**CR2025 (3 V)**



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

### **Using the remote control**

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

### **Starting up the unit**

1. Start the engine to boot up the system.

The [Select Program Language] screen appears.

2. Touch the language.

3. Touch .

The [Speaker Mode Settings] screen appears.

4. Touch the speaker modes.

#### **[Standard Mode]**

4-speaker system with front and rear speakers, or a 6-speaker system with front and rear speakers and subwoofers.

#### **[Network Mode]**

3-way system with a high range speaker, middle range speaker and subwoofer (low range speaker) for reproduction of high, middle and low frequencies (bands).

5. Touch [OK].

Initial Legal Disclaimer screen appears.

6. Touch [OK].

The top menu screen appears.

### **Switching the speaker mode**

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

1. Restore the default setting (page 107).

### **Using the touch panel**

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

### **Common touch panel keys**

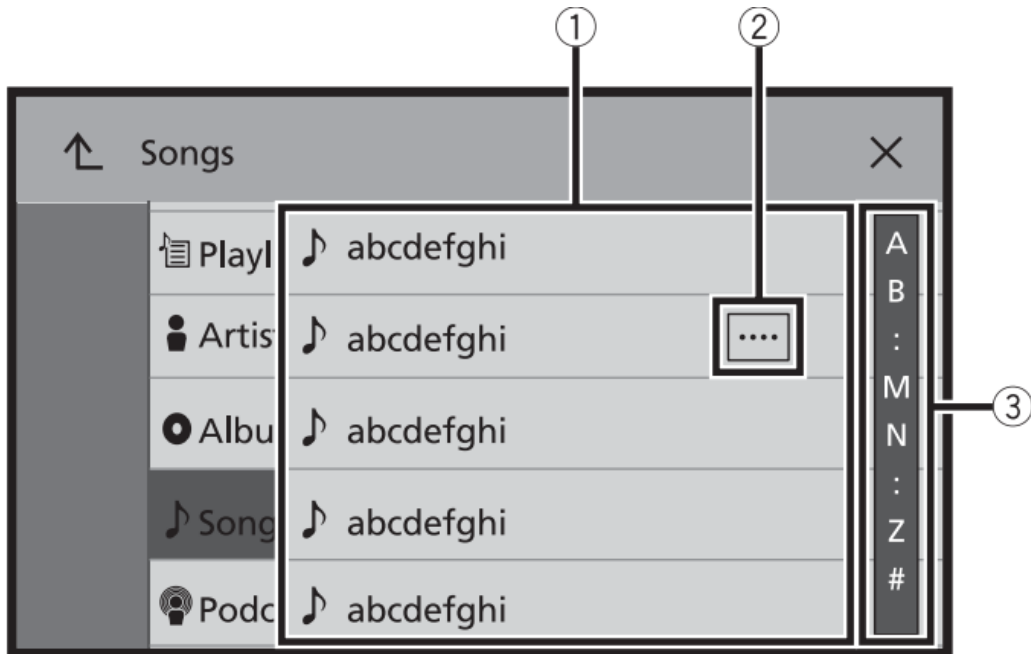


: Returns to the previous screen.



: Close the screen.

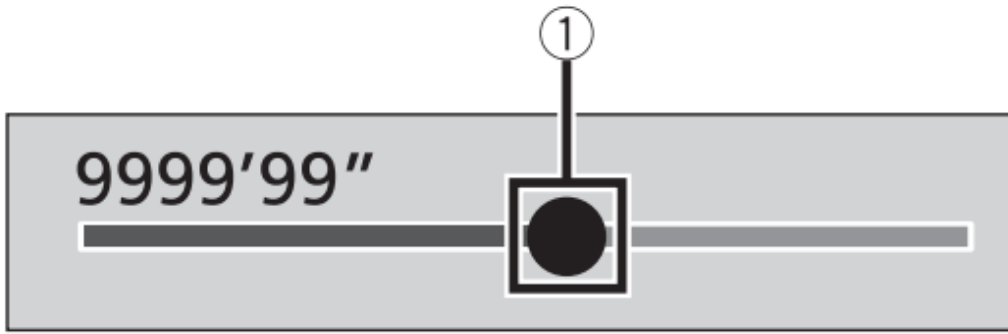
### Operating list screens



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

### Operating the time bar





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

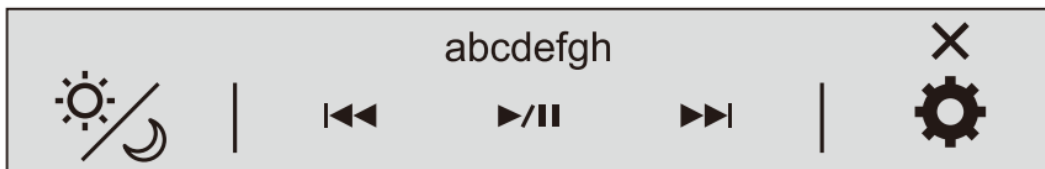
### Operating the menu bar





1. Press

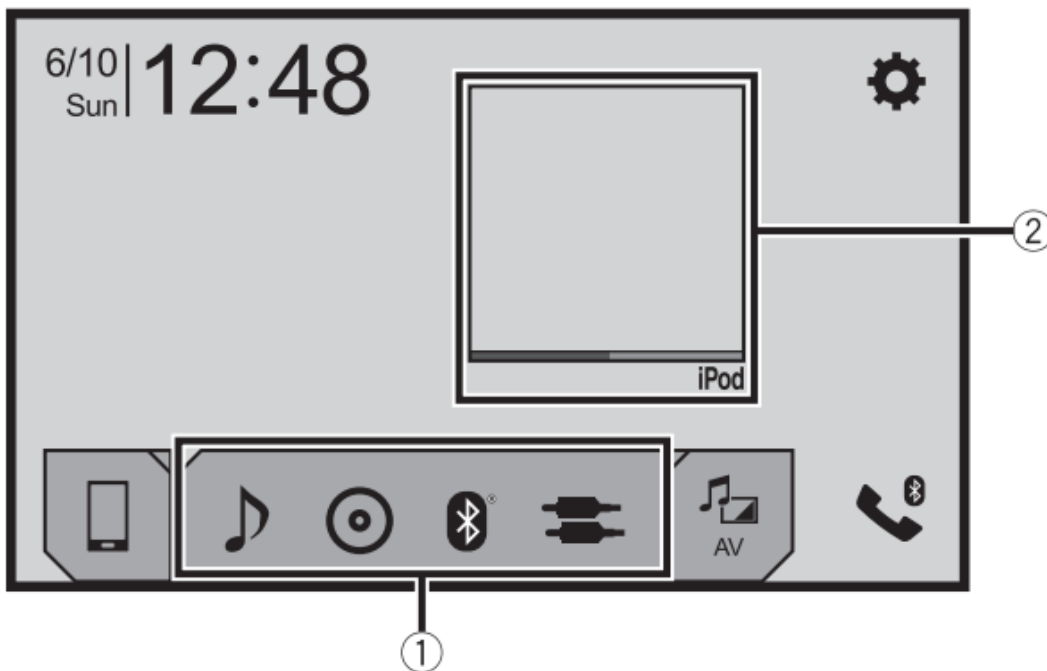
The menu bar pops up on the screen.

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






	<p>Switches the dimmer duration by day or night.</p> <p>NOTE</p> <p>When AppRadio Mode + is on, AppRadio Mode + SideControlBar is displayed</p>
	<p>Switches between playback and pause.</p>
	 <p>Skips files forward or backward.</p>
	 <p>Performs fast reverse or fast forward.</p>
	<p>Displays setting menu screen (page 87)</p>
	<p>Closes the menu bar.</p>

### Top menu screen



1	<p>Favorite source icons</p> <p><b>TIPS</b></p> <ul style="list-style-type: none"> <li>• When you connect the external navigation system to this unit, the navigation mode key is displayed at the middle of the right side of the display.</li> <li>• If you select [Power OFF], you can turn off almost all functions. <ul style="list-style-type: none"> <li>– An incoming call is received (only for hands-free phoning via Bluetooth).</li> <li>– A rearview 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> </li> </ul>
2	<p><b>AV operation key</b></p> <p>Displays the current source.</p> <p><b>TIP</b></p> <p>When the last source is displayed behind the key, you can switch the source by touching the key</p>
	<p>Setting the time and date (page 106)</p>
	<p>Settings (page 87) and Favorite menu (page 105)</p>
	<p><b>Connected device key</b></p> <p>Displays connected device. Switches the source or application with connected devices such as AppRadio Mode +, external navigation system, etc.</p> <p><b>TIP</b></p> <p>When a device with a compatible application is connected, the favorite application key appears. Once the key appears, you can adjust the range of the favorite application key area with the following steps.</p>

	<p>1. Touch and hold  .</p> <p> appears at the top right of the favorite application key.</p> <p>2. Drag  to the desired position. To finish the adjusting, touch any place of the display except for the favorite application key.</p> <p>NOTE : This function is available only when you stop your vehicle in a safe place and apply the parking brake.</p>
	<p>AV source (page 34)</p>
	<p>Hands-free phoning (page 23)</p>

## AppRadio Mode +

### Using AppRadio Mode +

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


### Starting procedure

When connecting an iPhone or a smartphone to this product, the settings are automatically configured according to the device to be connected. For details of the

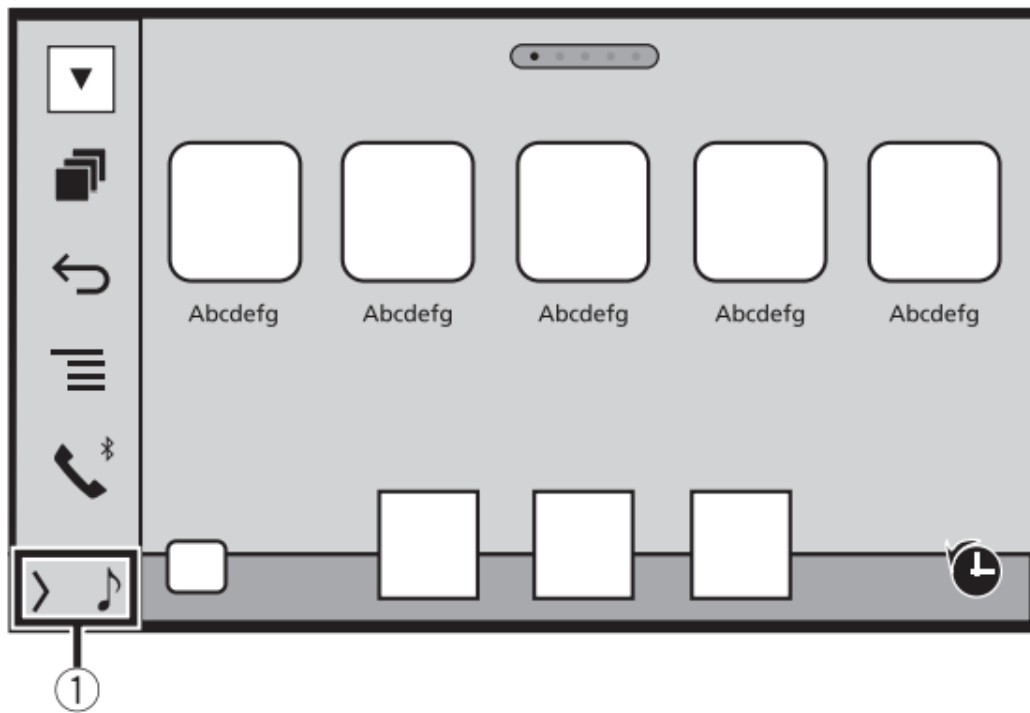
available connection, refer to iPod®/iPhone® or smartphone connection for AV source (page 37).




#### TIPS







- Touch the desired application icon after the AppRadio app is launched.
- If you connect your device to this product while an AppRadio Mode + compatible application is already running, the application operation screen will appear on this product.
- The desired application is launched, and the application operation screen appears.

- Press  to go back to the top menu screen.

#### AppRadio Mode +



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

- Press  then touch  to hide the AppRadio Mode + SideControlBar.
- Press  then touch  again to display the AppRadio Mode + SideControlBar again.
-  and  are not available depending on the type of device.

### Using the keyboard

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

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

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

TIP : You can select the keyboard language (page 90).

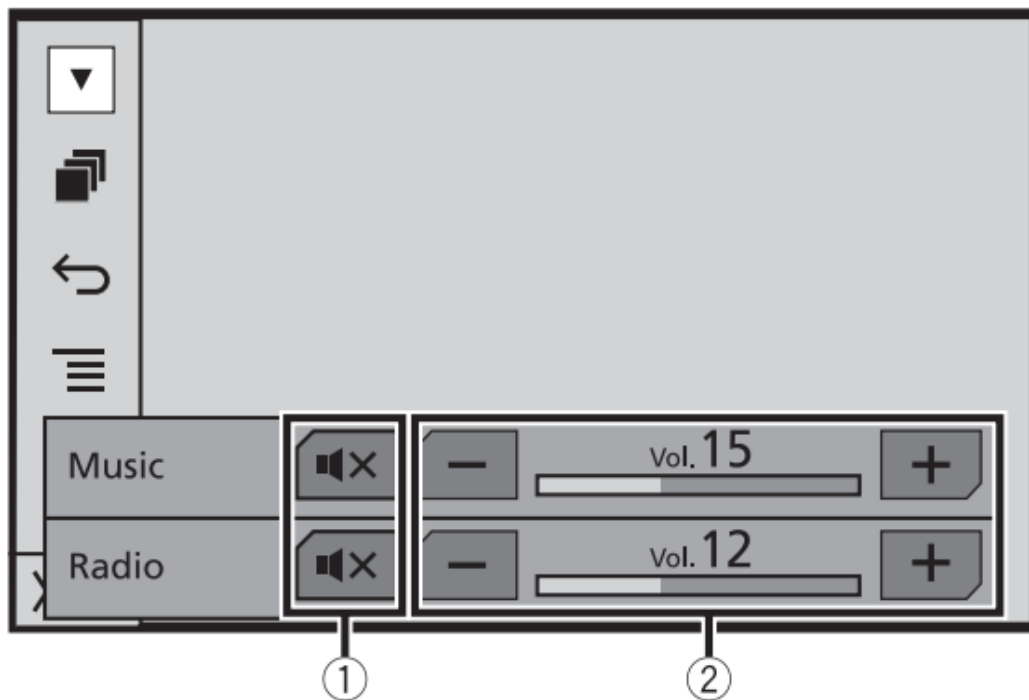
### Using the audio mix function

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

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

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

The audio mix menu will be displayed on the screen.



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

TIP : The AV operation screen and the Application screen can be switched by pressing



## AV source

### Supported AV source

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


- Radio\*1
- HD Radio Broadcasts (HD Radio™ tuner)\*2
- CD
- ROM (compressed audio or video files on discs)
- DVD-Video
- USB The following sources can be played back or used by connecting an auxiliary device.
- iPod

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

\*1 AVH-600EX/AVH-500EX

\*2 AVH-601EX/AVH-501EX

### Displaying the AV operation screen

1. Press  then touch the AV operation key. The AV operation screen appears.



1	Displays the source list.
---	---------------------------

### Selecting a source

#### Source on the AV source selection screen

1. Press  then touch .

2. Touch the source icon.

When you select [Source OFF], the AV source is turned off

### Source on the source list

1 Press  then touch AV operation key.

2 Touch .

3 Touch the source key.

When you select [Source OFF], the AV source is turned off.


### Changing the display order of source

#### Changing the display order of source icons

1. Press  then touch .

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

#### Changing the display order of source keys

1. Press  then touch AV operation key.

2. Touch .

3. Touch .

4. Drag the source key to the desired position.

### Adjusting the range of favorite source icons area

1. Press .

2 Touch and hold .



appears at the top left of the favorite source icons.



3 Drag to the desired position.

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

## Settings

### Displaying the setting screen

1. Press .

2. Touch .

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



**System settings**

### **[AV Source Settings]**

Menu Item	Description
[MIXTRAX Settings]	Page 82
[Radio settings]	Page 44
[SiriusXM settings]	Page 76
[Bluetooth Audio] [On] [Off]	Setting Bluetooth audio source activation.
[Spotify] [On] [Off]	Setting Spotify source activation.

### **[Beep Tone]**

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

### [Auto Mix]

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

### [Input/Output settings]

Menu Item	Description
[USB MTP] [On] [Off]	Select whether or not to activate USB MTP (Media Transfer Protocol) connection.
[AppRadio Mode Sound]	Set where the sound for AppRadio Mode + is output when it is used with a smartphone.
[AVH]	The sound is output from the speakers of this unit.
[Smartphone]	The sound is output from the speakers of the smartphone.  NOTE With an iPhone, the sound is always output from the speakers of this unit.
[AV Input] [Source] [Camera] [Off]*1 [On] [Off]*2	Select AV input source (page 80).
[AUX Input] [On] [Off]	Set to [On] for AUX source (page 78)

\*1 AVH-601EX/AVH-501EX

\*2 AVH-600EX/AVH-500EX

### [Camera settings]

A separately sold rearview camera (e.g. ND-BC8) is required for utilizing the rearview 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 rearview 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 35).

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

### [Demo Mode]

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

### [System Language]

Menu Item	Description
[System Language]	<p>Select the system language.</p> <p>NOTES</p> <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
[All Settings]	<p>Touch [Restore] to restore the settings to the default settings.</p> <p>NOTES</p> <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>

### [Keyboard]






Menu Item	Description
[Keyboard]	You can use the keyboard in AppRadio Mode + by setting the language of the keyboard for iPhone.

## [Touch panel calibration]





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

### NOTES

- Do not use sharp pointed tools such as ballpoint or mechanical pens. They may damage the screen.
- Do not turn off the engine while saving the adjusted position data.
- This setting is available only when you stop your vehicle in a safe place and apply the parking brake.

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

## [Dimmer Settings]

Menu Item	Description
[Dimmer Trigger]	Setting the dimmer brightness
[Auto]	Switches the dimmer to on or off automatically according to your vehicle's headlight turning on or off.
[Manual]	Switches the dimmer to on or off manually
[Time]	Switches the dimmer to on or off at the time you adjusted.
[Day/Night]	Setting the dimmer duration by day or night. You can use this function when [Dimmer Trigger] is set to [Manual].
[Day]	Turns the dimmer function to off.
[Night]	Turns the dimmer function to on.
[Dimmer Duration]	<p>Adjust the time that the dimmer is turned on or off by dragging the cursors or touching  or . You can use this function when [Dimmer Trigger] is set to [Time].</p> <p>TIPS</p> <ul style="list-style-type: none"> <li>• Each touch of  or  moves the cursor backward or forward in the 15-minute width.</li> <li>• When the cursors are placed on the same point, the dimmer available time is 0 hours.</li> <li>• When the cursor for off-time setting is placed on the left end and the cursor for on-time setting is placed on the right end, the dimmer available time is 0 hours.</li> <li>• When the cursor for on-time setting is placed on the left end and the cursor for off-time setting is placed on the right end, the dimmer available time is 24 hours.</li> </ul>

### [Picture Adjustment]

To adjust following menu, touch , , ,  to adjust.

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

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

#### NOTES

- The adjustments of [Brightness], [Contrast], and [Dimmer] are stored separately when your vehicle's headlights are off (daytime) and on (nighttime).
- [Brightness] and [Contrast] are switched automatically depending on the setting of [Dimmer Settings].
- [Dimmer] can be changed the setting or the time to switch it to on or off (page 91).
- The picture adjustment may not be available with some rear-view cameras.
- The setting contents can be memorized separately

#### [System Information]

Menu Item	Description
[Firmware Information]	Displaying the firmware version.
[Firmware Update]	<ol style="list-style-type: none"> <li>1. Download the firmware update files into your computer.</li> <li>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.</li> <li>3. Connect the USB storage device to this product (page 52).</li> <li>4. Turn the source off (page 35).</li> <li>5. Display the [System] setting screen (page 87).</li> <li>6. Touch [System Information].</li> <li>7. Touch [Firmware Update].</li> <li>8. Touch [Continue].</li> </ol> <p>Follow the on-screen instructions to finish updating the firmware.</p>
[License]	Displaying the open source license.

### [OEM Settings]




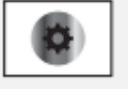




Menu Item	Description
[OEM Settings]	Page 86


### [OEM Volume Settings]

Menu Item	Description
[OEM Volume Settings]	Page 86



**Theme settings**

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

Preset Images	Select the desired preset style for the clock.
 (off)	Hides the clock display





\*1 Refer to Still image source (page 57).







\*2 You can preview the top menu screen or the AV operation screen by touching [Home] or [AV] respectively.







### Audio settings

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

Menu Item	Description
<p>[Graphic EQ]  [Super Bass] [Powerful]  [Natural] [Vocal] [Flat]  [Custom1] [Custom2]</p>	<p>Select or customize the equalizer curve. Select a curve that you want to use as the basis of customizing then touch the frequency that you want to adjust.</p> <p>TIPS</p> <ul style="list-style-type: none"> <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> <li>• If you trail a finger across the bars of multiple equalizer bands, the equalizer curve settings will be set to the value of the touched point on each bar.</li> </ul>
<p>[Fader/Balance]</p>	<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>TIP : You can also set the value by dragging the point on the displayed table.</p>
<p>[Mute Level]</p>	<p>Select mute or attenuate the AV source volume and iPhone or smartphone application volume when the navigation outputs the guidance voice.</p>
<p>[ATT]</p>	<p>The volume becomes 20 dB lower than the current volume.</p>
<p>[Mute]</p>	<p>The volume becomes 0.</p>

[Off]	The volume does not change.
[Source Level Adjuster] [-4] to [+4]	Adjust the volume level of each source to prevent radical changes in volume when switching between sources other than FM.  Touch  or  to adjust the source volume after comparing the FM tuner volume level with the level of the source.  TIP : If you directly touch the area where the cursor can be moved, the SLA (source level adjustment) setting will be changed to the value of the touched point.
[Subwoofer] [On] [Off]	Select enable or disable rear subwoofer output from this product.
<b>[Speaker Level]</b> Listening position*1*2 [Off] [Front-L] [Front-R] [Front] [All] <b>Standard Mode*3</b> [Front Left] [Front Right] [Rear Left] [Rear Right] [Subwoofer] <b>Network Mode*3</b> [High Left] [High Right] [Mid Left] [Mid Right] [Subwoofer] <b>Speaker output level</b> [-24] to [10]	Adjust the speaker output level of the listening position.  1. Touch  or  to select the listening position then select the output speaker.  2. Touch  or  to adjust the selected speaker output level.
[Crossover]*4	Select a speaker unit (filter) to adjust the HPF or LPF cutoff frequency and the slope for each speaker unit (page 100).
[Subwoofer Settings]*4	Select the subwoofer phase (page 100).

<p>[Listening Position]*1 [Off] [Front Left] [Front Right] [Front] [All]</p>	<p>Select a listening position that you want to make as the center of sound effects.</p>
<p><b>[Time Alignment]</b> [On] [Off] <b>Listening position*1*2</b> [Off] [Front-L] [Front-R] [Front] [All] <b>Standard Mode*3*5</b> [Front Left] [Front Right] [Rear Left] [Rear Right] [Subwoofer] <b>Network Mode*3*5</b> [High Left] [High Right] [Mid Left] [Mid Right] [Subwoofer] <b>Distance</b> [0] to [140]</p>	<p>Select or customize the time alignment settings to reflect the distance between the listener's position and each speaker. You need to measure the distance between the head of the listener and each speaker unit.</p> <p>1. Touch  or  to select the listening position then select the alignment speaker.</p> <p>2. Touch  or  to input the distance between the selected speaker and listening position.</p> <p>TIP : If you touch [TA On], the time alignment is turned off mandatorily.</p>
<p>[Auto EQ] [On] [Off]</p>	<p>Set the auto-adjusted equalizer to suit the vehicle's acoustics. To use this function, the Auto EQ measurement must be done in advance (page 99).</p>
<p>[A-EQ&amp;TA Measurement]</p>	<p>Measures and adjusts the vehicle's acoustics, equalizer, and time alignment automatically to suit the vehicle interior (page 99).</p>
<p>[Save Settings]</p>	<p>Save to recall the following current sound settings by touching [OK]: bass boost, slope, subwoofer phase, speaker level, Graphic EQ, HPF/LPF, listening position, crossover, time alignment.</p> <p>TIP : When you touch [Cancel], return to the [Audio] setting screen.</p>
	<p>Load the sound settings.</p>

[Load Settings] [Initial Settings] [Sound Setting] [Auto EQ&TA Setting]	<p>NOTES</p> <ul style="list-style-type: none"> <li>• [Sound Setting] is available only when you have already saved the sound settings (page 97).</li> <li>• [Auto EQ&amp;TA Setting] is available only when you have already performed Auto EQ measurement (page 98).</li> </ul>
[BASS Boost] [0] to [6]	Adjust the bass boost level.
[Rear Speaker Output] [Rear] [Subwoofer]	<p>Select the rear speaker output.</p> <p>NOTE : This function is available when [Standard Mode] is selected as the speaker mode.</p>
<b>[Loudness]</b> [Off] [Low] [Mid] [High]	Compensates for deficiencies in the low-frequency and high-frequency ranges at low volume.
[Automatic Level Control]	Corrects automatically the audio level difference between the music files or the sources.
[Off]	Turns the auto level control setting off.
[Mode1]	Corrects a little the audio level difference between the music files or the sources (for the narrow dynamic range audio signal).
[Mode2]	Corrects widely the audio level difference between the music files or the sources (for the wide dynamic range audio signal).
<b>[Sound Retriever]</b> [Off] [Mode1] [Mode2]	<p>Enhances compressed audio and restores rich sound automatically.</p> <p>TIP : [Mode2] has a stronger effect than [Mode1]</p>

\*1 [All] is not available when [Network Mode] is selected as the speaker mode.

\*2 If you change the listening position setting, the output levels of all the speakers will change in conjunction with the setting.



\*3 To use this function, the vehicle's acoustics must be measured in advance.

\*4 This function is not available when adjusting the High speaker.

\*5 This function is available only when the listening position setting is set to [Front Left] or [Front Right].

## Setting the time and date

1. Touch the current time on the screen.

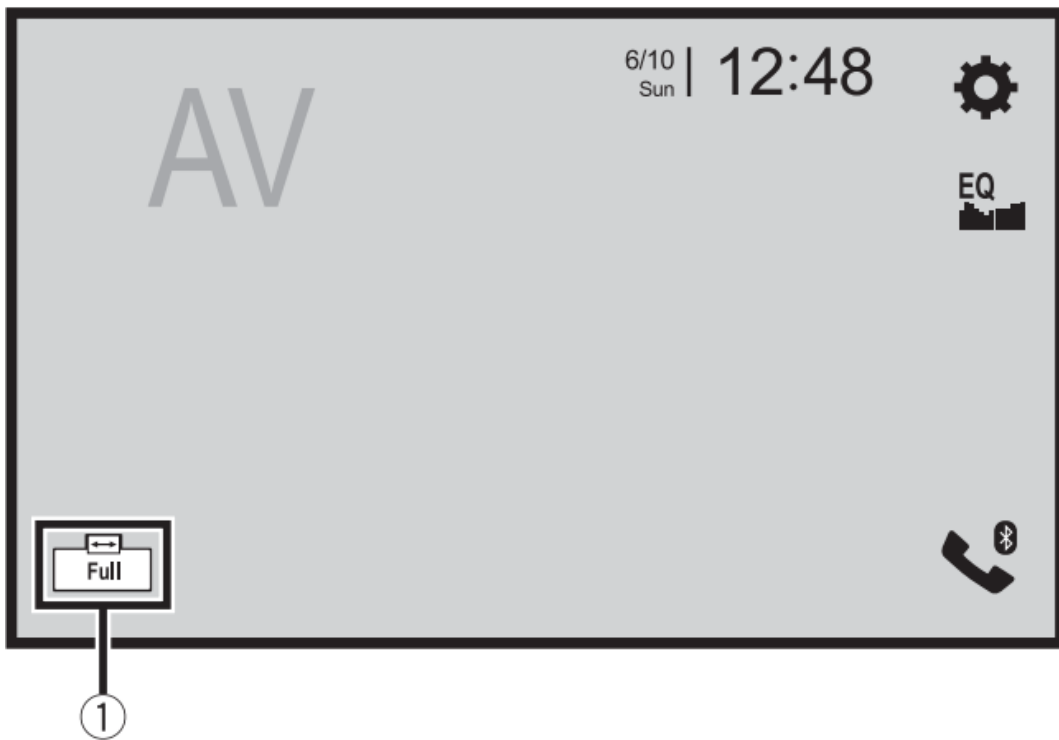
2. Touch  or  to set the correct time and date. You can operate the following items: Year, month, date, hour, minute.

### TIPS

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

## Changing the widescreen mode

1. Touch the screen display mode key.



1	Screen display mode key
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2. Touch the desired mode

[Full]	Displays images across the entire screen.  NOTE : Some images may not be displayed across the entire screen
[Zoom]	Displays the images enlarging them vertically.
[Normal]	Displays images without changing the ratio
[Trimming]	An image is displayed across the entire screen with the horizontal-to-vertical ratio left as is. If the screen ratio differs from the image, the image may be displayed partly cut off either at the top/bottom or sides.  NOTE : [Trimming] is for image files only

#### TIPS

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

## Restoring this product to the default settings

You can restore settings or recorded content to the default settings from [Restore Settings] in the [System] menu (page 90).


## Troubleshooting

### Common problems

- A black screen is displayed, and operation is not possible using the touch panel keys
  - [Power OFF] mode is on.
    - Press any button on this product to release the mode.

### Problems with the AV screen

- CD or DVD playback is not possible.
  - The disc is inserted upside down.
    - Insert the disc with the label upward.
  - The disc is dirty.
    - Clean the disc.

- The disc is cracked or otherwise damaged.
  - Insert a normal, round disc.
- The files on the disc are in an irregular file format.
  - Check the file format.
- The disc format cannot be played back.
  - Replace the disc.
- The loaded disc is a type this product cannot play.
  - Check what type of disc it is.
- The screen is covered by a caution message and the video cannot be shown.
  - The parking brake lead is not connected or the parking brake is not applied.
    - Connect the parking brake lead correctly, and apply the parking brake.
  - The parking brake interlock is activated.
    - Park your vehicle in a safe place and apply the parking brake.
- No video output from the connected equipment.
  - The [AV Input] or [AUX Input] setting is incorrect.
    - Correct the settings.
- The audio or video skips.
  - This product is not firmly secured.
    - Secure this product firmly.
- No sounds are produced. The volume level will not rise.
  - Cables are not connected correctly.
    - Connect the cables correctly.
  - The system is performing still, slow motion, or frame-by-frame playback with DVD-Video.
    - There is no sound during still, slow motion, or frame-by-frame playback with DVD-Video.
  - The system is paused or performing fast reverse or forward during the disc playback.
    - For the media other than music CD (CD-DA), there is no sound on fast reverse or forward.
- The icon  is displayed, and operation is impossible.

- The operation is not compatible with the video configuration.
  - The operation is not possible. (For example, the DVD playing does not feature that angle, audio system, subtitle language, etc.)
- Random playback in Music Browse mode is released in the USB storage device.
  - Random playback in Music Browse mode is canceled after the ignition switch is turned off (ACC OFF).
    - Switch to Music Browse mode again and turn on random playback.
- The picture stops (pauses) and this product cannot be operated.
  - The reading of data is impossible during disc playback.
    - Stop playback once, then restart.
- The picture is stretched, with an incorrect aspect ratio.
  - The aspect setting is incorrect for the display.
    - Select the appropriate setting for that image.
- A parental lock message is displayed and DVD playback is not possible.
  - The parental lock is on.
    - Turn the parental lock off or change the level.
- The parental lock for DVD playback cannot be canceled.
  - The code number is incorrect.
    - Input the correct code number.
- Playback is not with the audio language and subtitle language settings selected in [DVD Setup].
  - The DVD playing does not feature dialog or subtitles in the language selected in [DVD Setup].
    - Switching to a selected language is not possible if the language selected in [DVD Setup] is not recorded on the disc.
- The picture is extremely unclear/ distorted and dark during playback.
  - The disc features a signal to prohibit copying. (Some discs may have this.)
    - Since this product is compatible with the copy guard analog copy protect system, the picture may suffer from horizontal stripes or other imperfections when a disc with that kind of protection signal is viewed on some displays. This is not a malfunction.
- iPod cannot be operated.


- The iPod is frozen.
  - Reconnect the iPod with the USB interface cable for iPod/iPhone.
  - Update the iPod software version.
- An error has occurred.
  - Reconnect the iPod with the USB interface cable for iPod/iPhone.
  - Park your vehicle in a safe place, and then turn off the ignition switch (ACC OFF). Subsequently, turn the ignition switch to on (ACC ON) again.
  - Update the iPod software version.
- Cables are not connected correctly.
  - Connect the cables correctly.
- Sound from the iPod cannot be heard.
  - The audio output direction may switch automatically when the Bluetooth and USB connections are used at the same time.
    - Use the iPod to change the audio output direction.
- No back camera image when the vehicle is in reverse.
  - The back camera input setting on the receiver is set to Off.
    - Change the back camera setting to On in the settings menu. (Refer to the System Settings section of this manual to adjust.)
  - The camera input may be loose or not connected.
    - Check the connection and make sure the male end of the camera is connected to the brown input on the back of the receiver. (Refer to the installation manual.)
  - The reverse lead on the receiver may not be connected to the proper wire at the reverse lamp.
    - Check the connection and make sure that the violet/white lead of the receiver is connected to the lead whose voltage changes when the shift lever is put in reverse. (Refer to the installation manual.)
- Black screen displayed when the vehicle is in reverse, with no camera installed.
  - Back camera input is set to On.
    - Turn the setting to Off in the settings menu. (Refer to the System Settings section of this manual to adjust.)
- Back image displayed when vehicle is not in reverse.
  - The camera polarity is not set properly in the Camera settings menu.

- Review System Settings section of this manual for steps to switch the camera polarity. Park in a safe place, then while keeping your foot firmly on the brake, put the vehicle in reverse, access the System Settings menu, and change the camera polarity setting. Put vehicle back in park. (Refer to the System Settings section of this manual to adjust.)

### Problems with the phone screen

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

### Problems with Application screen

- A black screen is displayed.
  - While operating an application, the application was ended on the smartphone side.
  - Press  to display the top menu screen.
  - The smartphone OS may be awaiting screen operation.
    - Stop the vehicle in a safe place and check the screen on the smartphone.
- The screen is displayed, but operation does not work at all.
  - An error has occurred.
    - Park your vehicle in a safe place, and then turn off the ignition switch (ACC OFF). Subsequently, turn the ignition switch to on (ACC ON) again.
    - When an Android device is connected, disconnect the Bluetooth connection from this product and then reconnect it.
- The smartphone was not charged.
  - Charging stopped because the temperature of the smartphone rose due to prolonged use of the smartphone during charging.
    - Disconnect the smartphone from the cable, and wait until the smartphone cools down.

- More battery power was consumed than was gained from charging.
  - This problem may be resolved by stopping any unnecessary services on the smartphone.
- Sound from AppRadio Mode + of the Android device cannot be heard from the speakers of this unit.
  - Depending on the Android device, the sound from AppRadio Mode + may not be output from the speakers of this unit.
    - Switch to [Smartphone] in the [AppRadio Mode Sound] settings (page 88).

## Error messages

### Common

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

### Pandora

- Error-19 (Communication error occurred.)
  - Communication failed.
    - Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
- Our content licenses limit the number of tracks you may skip.
  - Skip limit reached.
    - Do not exceed the skip limit.
    - Pandora limits the total number of skips per hour.
- Log in error
  - You are not logged in to the Pandora application.
    - Please log in to the Pandora application.
- Check USB
  - The USB connector or USB cable has short-circuited.
    - Check that the USB connector or USB cable is not caught in something or damaged.

→ The connected USB storage device consumes more than maximum allowable current.

– Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB storage device.

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

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

– Access Pandora from within the licensing region.

## **Spotify**

- Skip limit reached.

→ Skip limit reached.

– Do not exceed the skip limit.

– Spotify limits the total number of skips per hour.

- Check USB

→ The USB connector or USB cable has short-circuited.

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

→ The connected USB storage device consumes more than maximum allowable current.

– Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB storage device.

- No Spotify

→ The Spotify application is not installed in the connected device.

– Install the Spotify application in your mobile device.

- Update App

→ The Spotify application is out of date.

– Update to the latest Spotify application.

- Login Please

→ You are not logged in to the Spotify application.

– Please log in to the Spotify application.

- No Signal

→ The connected device is out of area.

– Connect the device to a network.

## SiriusXM® Satellite Radio

- Check Antenna
  - The antenna connection is incorrect.
    - Check the antenna connection. If the message fails to disappear even after the engine is switched off/on, contact your dealer or the nearest authorized Pioneer service center for assistance.
- Check Tuner
  - The SiriusXM Connect Vehicle Tuner connection is incorrect.
    - Check the tuner connection and battery voltage. If the message fails to disappear even after the engine is switched off/on, contact your dealer or the nearest authorized Pioneer service center for assistance.
- No Signal
  - The SiriusXM Connect Vehicle Tuner is having difficulty receiving the SiriusXM satellite signal.
    - Verify that your vehicle is outdoors with a clear view of the southern sky.
    - Verify that the SiriusXM magnetic mount antenna is mounted on a metal surface on the outside of the vehicle.
    - Move the SiriusXM antenna away from any obstructions.
- No Content
  - TuneScan™ is not available.
    - Perform the operation with another preset channel.
- Channel Not Available
  - The channel that you have requested is not a valid SiriusXM channel.
    - Visit the page for more information about the SiriusXM channel lineup.
- Subscription Updated Press Enter to Continue
  - This product has detected a change in your SiriusXM subscription status.
    - Touch [Enter] to clear the message. In the U.S.A., visit the page or call 1-866-635-2349 if you have questions about your subscription. In Canada, visit the page or call 1-877-438-9677 if you have questions about your subscription.
- Channel Not Subscribed. Call SiriusXM to Subscribe.
  - The channel that you have requested is not included in your SiriusXM subscription package.

– Check the content of your SiriusXM subscription package. In the U.S.A., visit the page or call 1-866-635-2349 if you have questions about your subscription package or would like to subscribe to this channel. In Canada, visit the page or call 1-877-438- 9677.

- Channel Locked Please Enter the Lock Code

- Locked by the radio Parental Control feature.

- Release the channel lock.

- Memory Full

- The memory has become full while playback was paused.

- Resume playback.

- Memory Nearly Full

- The memory has become nearly full while playback was paused.

- Resume playback.

- There are no qualified TuneMix music

- There are no qualified TuneMix channels in this band.

- Requires two or more qualified music channels to be stored as presets in the current band

## Disc

- Error-02-XX/FF-FF

- The disc is dirty.

- Clean the disc.

- The disc is scratched.

- Replace the disc.

- The disc is loaded upside down.

- Check that the disc is loaded correctly.

- There is an electrical or mechanical error.

- Press the RESET button.

- Different Region Disc

- The disc does not have the same region number as this product.

- Replace the DVD with one bearing the correct region number.

- Unplayable Disc

- This type of disc cannot be played on this product.
  - Replace the disc with one that can be played on this product.
    - Unplayable File
- This type of file cannot be played on this product.
  - Select a file that can be played.
    - Skipped
- The inserted disc contains DRM protected files.
  - The protected files are skipped.
    - Protect
- All the files on the inserted disc are embedded with DRM.
  - Replace the disc.
    - TEMP
- The temperature of this product is outside the normal operating range.
  - Wait until this product returns to a temperature within the normal operating limits.
    - Your device is not authorized to play this DivX protected video.
- This product's DivX registration code has not been authorized by the DivX VOD contents provider.
  - Video frame rate not supported
- DivX file's frame rate is more than 30 fps.
  - Select a file that can be played.
    - Audio Format not supported
- This type of file is not supported on this product.
  - Select a file that can be played.

### **USB storage device**

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

- There is no playable file in the USB storage device.
  - Check that the files in the USB storage device are compatible with this product.
- Security for the connected USB storage device is enabled.
  - Follow the USB storage device instructions to disable security.
    - Skipped
- The connected USB storage device contains DRM protected files.
  - The protected files are skipped.
    - Protect
- All the files on the connected USB storage device are embedded with DRM.
  - Replace the USB storage device.
    - Incompatible USB
- The connected USB storage device is not supported by this product.
  - Disconnect your device and replace it with a compatible USB storage device.
    - Check USB
- The USB connector or USB cable has short-circuited.
  - Check that the USB connector or USB cable is not caught in something or damaged.
- The connected USB storage device consumes more than maximum allowable current.
  - Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB storage device.
    - HUB Error
- The connected USB hub is not supported by this product.
  - Directly connect the USB storage device to this product.
    - No Response
- This product cannot recognize the connected USB storage device.
  - Disconnect the device and replace it with another USB storage device.
    - USB was disconnected for device protection. Do not re-insert this USB memory into the unit. Please restart the unit.
- The USB connector or USB cable has short-circuited.

- Check that the USB connector or USB cable is not caught in something or damaged.
- The connected USB storage device consumes more than maximum allowable current.
  - Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB storage device.
- The USB interface cable for iPod/iPhone has short-circuited.
  - Confirm that the USB interface cable for iPod/iPhone or USB cable is not caught in something or damaged.
    - Your device is not authorized to play this DivX protected video.
- This product's DivX registration code has not been authorized by the DivX VOD contents provider.
  - Audio Format not supported
- This type of file is not supported on this product.
  - Select a file that can be played

## **iPod**

- Error-02-6X/-9X/-DX
- iPod failure.
  - Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
    - Error-02-67
- The iPod firmware version is old.
  - Update the iPod version.

## **Bluetooth**

- Error-10
- The power failed for the Bluetooth module of this product.
  - Turn the ignition switch to OFF and then to ON.

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

## **Handling and care of discs**

### **Built-in drive and care**

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

#### **Ambient conditions for playing a disc**

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

#### **Warning**

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.