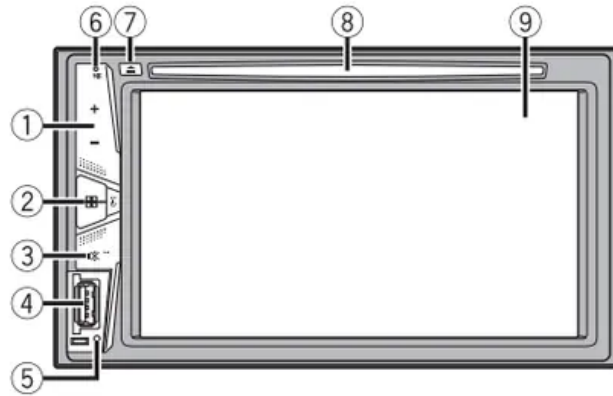


Parts and controls

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 6).

⑥	Microphone	The Bluetooth microphone is built in the grill of the product. Speak toward the microphone when you make a call. NOTE 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	▲ (EJECT)	Refer to Inserting and ejecting a disc (page 12).
⑧	Disc-loading slot	
⑨	LCD screen	

Basic operation

Resetting the microprocessor

CAUTION

- Pressing the RESET button resets settings and recorded contents to the factory settings.
 - Do not perform this operation when a device is connected to this product.
 - Some of the settings and recorded contents will not be reset.

- The microprocessor must be reset under the following conditions:
 - Prior to using this product for the first time after installation.
 - If this product fails to operate properly.
 - If there appears to be problems with the operation of the system.

1 Turn the ignition switch OFF.

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

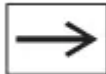
Remote control

- 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












2 Touch the language.

3 Touch . The top menu screen appears

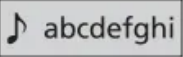




Using the touch panel

- You can operate this product by touching the keys on the screen directly with your fingers.
- NOTE: To protect the LCD screen from damage, be sure to touch the screen only with your finger gently.


Common touch panel keys

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

Operating list screens







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

Operating the time bar

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

Top menu screen





①	Source icons
	Setting the time and date (page 21)
	Settings (page 16) and Favorite menu (page 20)
	Hands-free phoning (page 8)
	AV source off
	<p>If you select , you can turn off almost all functions.</p> <p>The unit turns on by operating following functions:</p> <ul style="list-style-type: none"> • An incoming call is received (only for hands-free phoning via Bluetooth). • A rear view camera image is input when the vehicle is in reverse. • A button on this unit is pressed. • The ignition switch is turned off (ACC OFF), then turned on (ACC ON).

Bluetooth



Bluetooth connection

1. Turn on the Bluetooth function on the device.


2. .
Press .

3.  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
- 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
[Connection]	<p>Connect, disconnect, or delete registered Bluetooth device manually.</p> <p>Touch  to delete registered device.</p> <p>To connect a registered Bluetooth device manually, touch the name of the device.</p> <p>To disconnect the device, touch the name of the connected device in the list.</p> <p>NOTE Connect the Bluetooth device manually in the following cases:</p> <ul style="list-style-type: none"> • Two or more Bluetooth devices are registered, and you want to manually select the device to be used. • You want to reconnect a disconnected Bluetooth device. • Connection cannot be established automatically for some reason.
[Auto Connect] [On] [Off]	<ul style="list-style-type: none"> • Select [On] to connect the last connected Bluetooth device automatically. • NOTE If two Bluetooth devices were connected the last time, the two devices are connected to this product automatically in the order that they are registered in the device list.
[Visibility] [On] [Off]	<p>Select [On] to make this product visible to the other device.</p>
[PIN Code Input]	<p>Change the PIN code for Bluetooth connection. The default PIN code is "0000".</p> <ol style="list-style-type: none"> 1. Touch [0] to [9] to input the pin code (up to 8 digits). 2. Touch .
[Device Information]	<p>Displaying the device name and address of this product.</p>
[Bluetooth Memory Clear]	<p>Touch [Clear] then [OK] to clear the Bluetooth memory</p>

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
- 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
- CAUTION: For your safety, avoid talking on the phone as much as possible while driving

Making a phone call

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

	The following items are displayed. <ul style="list-style-type: none">• Name of the current cellular phone• List number of the current cellular phone• Reception status of the current cellular phone• Battery status of the current cellular phone
	Initial searches the phone book. <p>Each time you press the button, English and system language may switch depending on the system language setting. Touch the list area to stop initial search.</p>
	Using preset dial list (page 9)
	Using phone book <p>Select a contact from the phone book. Touch the desired name on the list then select the phone number.</p> TIPS <ul style="list-style-type: none">• The contacts on your phone will be automatically transferred to this product.• Update the phone book manually.






	Using call history Make a phone call from the received call  , dialed call  , or missed call  .
	Direct phone number input Enter the number keys to enter the phone number then touch  to make a call.

To end the call


1. Touch .

Using the preset dial lists





Registering a phone number: You can easily store up to six phone numbers per device as presets.

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

Dialing from the preset dial list



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

Deleting a phone number



1. Press , then touch .
2. Touch  then .

3. Touch [Yes]

Receiving a phone call

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

TIPS

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



Bluetooth audio

Before using the Bluetooth audio player, register and connect the device to this product

NOTES

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

1. Press  .

2 Touch  then . The system setting screen appears.

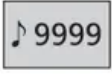



3. Touch [AV Source Settings].

4 Confirm that [Bluetooth Audio] is turned on.

5 Press  .

6 Touch [Bluetooth Audio]. The Bluetooth audio playback screen appears.

Basic operation: Description of Bluetooth audio playback screen

	Track number indicator
	Sets a repeat play range.
	Plays files in random order.
	Switches the devices.

AV source

Supported AV source

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

- Radio
- 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.

- 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
- Connecting via USB

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

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

2. Press .

3. Touch compatible desired source.










Radio

Starting procedure

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

Basic operation

Description of Radio screen

	 Recalls the preset channel stored to a key from memory.  Stores the current broadcast frequency to a key.
	Displays the preset channel list. Select an item on the list ([1] to [6]) to switch to the preset channel.
	Selects the FM1, FM2, FM3, or AM band.
	Performs BSM (best stations memory) function (page 12).
	 Manual tuning
	 Seek tuning or non stop seek tuning Releasing the key in a few seconds skips to the nearest station from the current frequency. Keep holding the key for long seconds to perform, performs non stop seek tuning.


Storing the strongest broadcast frequencies (BSM)

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

NOTES

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







1 Touch  to begin search. While searching, the six strongest broadcast frequencies will be stored under the preset channel keys in the order of their signal strength.

To cancel the storage process

1. Touch [Cancel].

Radio settings

1.  .
Press  .
2.  then  . The system setting screen appears.
3. Touch [AV Source Settings].
4. Touch [Radio settings].

The menu items vary according to the source.

Menu Item	Description
[Local] [Off] FM: [Level1] [Level2] [Level3] [Level4] AM: [Level1] [Level2]	Local seek tuning allows you to only tune into radio stations with sufficiently strong signals. NOTE The FM [Level4] (AM [Level2]) setting allows reception of only stations with the strongest signals.

Disc

Inserting and ejecting a disc

- You can play a normal music CD, Video-CD, or DVD-Video using the built-in drive of this product.
- CAUTION Do not insert anything other than a disc into the disc-loading slot

Insert the disc

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

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




Ejecting a disc

1. Press 

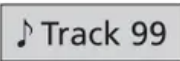



Basic operation

TIPS

- If a Video-CD with PBC (playback control) ON is being played,  appears.
- You can set the screen size for the video image

Audio source

Description of Audio source screen




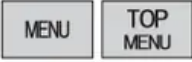


	Track number indicator
	Sets a repeat play for the current disc/the current track.
	Plays or does not play tracks in random order.
	Selects a track from the list. Touch a track on the list to play back.








Video source

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

Description of Video source screen

TIP: Touch anywhere on the screen, the touch panel keys appear

	<p>Performs frame-by-frame playback.</p>  <p>Performs slow-motion playback. Each time you touch , it changes the speed in four steps in the following order: 1/16 -> 1/8 -> 1/4 -> 1/2</p> <p>TIP Reverse slow-motion playback is only for Video CD.</p>
	<p>Displays the DVD menu.</p> <p>NOTE This function may not work properly with some DVD disc content. In that case, use touch panel keys to operate the DVD.</p>
	<p>Sets a repeat play for all files/the current chapter/the current title.</p>
	<p>Switches the audio/subtitle language.</p>

	<p>Displays the hidden function bar.</p>
	<p>Searches for the part you want to play. Touch [Title], [Chapter], [10Key], or [Track] then input the desired number from [0] to [9]. To start playback from the number you registered, touch .</p> <p>TIPS</p> <ul style="list-style-type: none"> • To cancel an input number, touch [C]. • For DVD-Videos, you can select [Title], [Chapter] or [10Key]. • For Video-CDs, you can select [Track] or [10Key].*
	<p>Selects the audio output from [L+R], [Left], [Right], [Mix]. This function is available for Video-CDs and DVDs recorded with LPCM audio.</p>
	<p>Changes the viewing angle (Multi-angle). This function is available for DVDs featuring multi-angle recordings.</p>
	<p>Resumes playback (Bookmark). This function is available for DVD-Video. You can memorize one point as a Bookmark for a disc (up to five discs). To clear the bookmark on the disc, touch and hold this key.</p>
	<p>Returns and begins playback from the specified point. This function is available for DVD-Video and Video-CDs featuring PBC (playback control).</p>

* PBC (playback control) only

Compressed files

Inserting and ejecting media

- You can play compressed audio, compressed video, or still image files stored in a disc or an external storage device.
- CAUTION: Do not insert anything other than a disc into the disc-loading slot

Insert a disc

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

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

Ejecting a disc

1. Press  .

Plugging a USB storage device

1. Open the USB port cover.
2. Plug in the USB device/smartphone (Android device) using an appropriate cable.

Unplugging a USB storage device

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

Starting procedure

For Disc

1. Insert the disc

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

For USB

1. Plug in the USB device/smartphone (Android device) using an appropriate cable.

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









Basic operation

TIP: You can set the screen size for the video and image files

Audio source

Description of Audio source screen (Example: USB)

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








	<p>Sets a repeat play range for all files/the current folder/the current file.</p> <p>NOTE The types of repeat play range depend on the source.</p>
	<p>Plays files or does not play in random order.</p>
	<p>Displays the hidden function bar.</p>
	<p>Switches the following media file types. [Music]: Compressed audio files [Video]: Compressed video files [CD-DA]: Audio data (CD-DA) [Photo]: Image files</p>
	<p>Selects a file from the list. Touch a file on the list to playback.</p> <p>TIP Touching a folder on the list shows its contents. You can play a file on the list by touching it.</p>
	<p>When you touch the memory select icon while connecting an Android device, it switches between internal memory and external memory.</p>
	<p>Selects the previous folder or the next folder.</p>
	<p>Switches the current music information display.</p>

Video source

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

Description of Video source screen (Example: Disc)

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

	 Performs frame-by-frame playback.
	 Performs slow-motion playback.
	Sets a repeat play range for all files/the current folder/the current file. NOTE The types of repeat play range depend on the source.
	Switches the audio/subtitle language.
	Switches the following media file types. [Music]: Compressed audio files [Video]: Compressed video files [CD-DA]: Audio data (CD-DA) [Photo]: Image files
	Selects a file from the list. Touch a file on the list to playback. TIP Touching a folder on the list shows its contents. You can play a file on the list by touching it.





AUX

The video image or sound can be played via the device connected to AUX input.

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

NOTE A Mini-jack AV cable (sold separately) is required for connection. For details, refer to External video component and the display

Starting procedure

1. 
Press
2.  then .
3. Confirm that [AUX Input] is turned on.
4. 
Press .
5. Touch [AUX]. The AUX screen appears.

Basic operation

Description of AUX screen

TIPS





- Touch anywhere on the screen, the touch panel keys appear.
- You can set the screen size for the video image

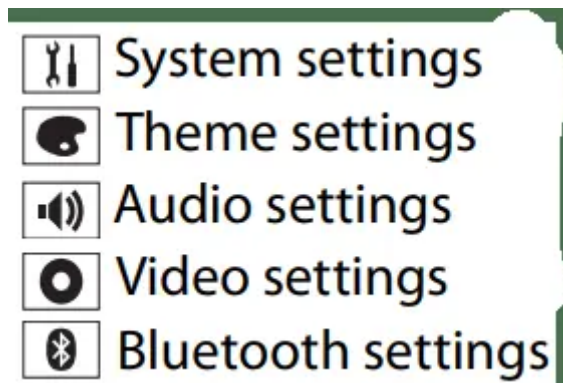
	Switches between the video input and audio input.
---	--

Settings

You can adjust various settings in the main menu

Displaying the setting screen

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



System settings

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

[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\
- NOTE To set the rear view camera as the camera for Camera View mode, set [Back Camera Input] to [On]

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

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

-  If you touch  while the camera image is displayed, the displayed image turns off temporarily.

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

[System Language]

Menu Item	Description
[System Language]	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

[Restore Settings]

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

[Beep Tone]











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

[Touch Panel Calibration]





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

NOTES

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

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

[Dimmer Settings]

Menu Item	Description
[Dimmer Trigger] [Auto] [Manual] [Time]	Setting the dimmer brightness. Switches the dimmer to on or off automatically according to your vehicle's headlight turning on or off Switches the dimmer to on or off manually. Switches the dimmer to on or off at the time you adjusted
[Day/Night] [Day] [Night]	Setting the dimmer duration by day or night. You can use this function when [Manual] is set to [Dimmer Trigger] Turns the dimmer function to off. 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 style="text-align: center;">TIPS</p> <ul style="list-style-type: none"> • Each touch of  or  moves the cursor backward or forward in the 15 minute width. • When the cursors are placed on the same point, the dimmer available time is 0 hours. • When the cursor for off time setting is placed on the left end and the cursor for on time setting is placed on the right end, the dimmer available time is 0 hours. • When the cursor for on time setting is placed on the left end and the cursor for off time setting is placed on the right end, the dimmer available time is 24 hours. <p style="text-align: center;">NOTES</p> <ul style="list-style-type: none"> • The time display of the dimmer duration adjusting bar depends on the clock display setting • This setting is available only when you stop your vehicle in a safe place and apply the parking brake.

Connection

Precautions

Your new product and this manual

- Do not operate this product, any applications, or the rear view camera option (if purchased) if doing so will divert your attention in any way from the safe operation of your vehicle. Always observe safe driving rules and follow all existing traffic regulations. If you experience difficulty in operating this product or reading the display, park your vehicle in a safe location and apply the parking brake before making the necessary adjustments.
- Do not install this product where it may (i) obstruct the driver's vision, (ii) impair the performance of any of the vehicle's operating systems or safety features, including airbags, hazard lamp buttons, or (iii) impair the driver's ability to safely operate the vehicle. In some cases, it may not be possible to install this product because of the vehicle type or the shape of the vehicle interior

Important safeguards

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

Precautions before connecting the system

WARNING Do not take any steps to tamper with or disable the parking brake interlock system which is in place for your protection. Tampering with or disabling the parking brake interlock system could result in serious injury or death.

CAUTION

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

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

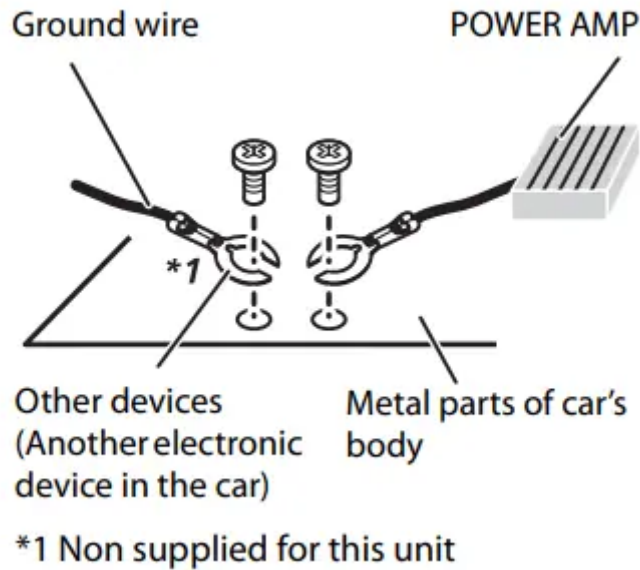
Before installing this product

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

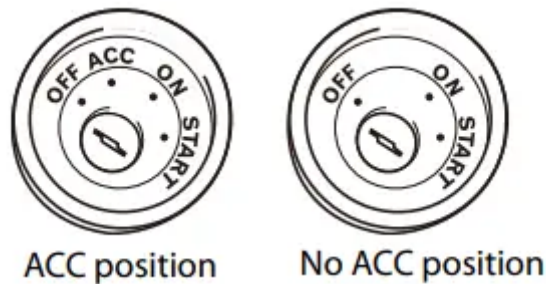
To prevent damage


WARNING

- When speaker output is used by 4 channels , use speakers over 50 W (Maximum input power) and between 4 Ω to 8 Ω (impedance value). Do not use 1 Ω to 3 Ω speakers for this unit.
- The black cable is ground. When installing this unit or power amp (sold separately), make sure to connect the ground wire first. Ensure that the ground wire is properly connected to metal parts of the car's body. The ground wire of the power amp and the one of this unit or any other device must be connected to the car separately with different screws. If the screw for the ground wire loosens or falls out, it could result in fire generation of smoke or malfunction.



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

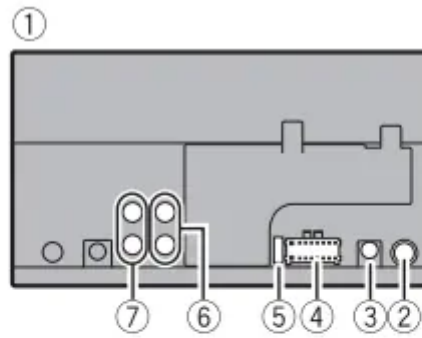


- To avoid short-circuiting, cover the disconnected lead with insulating tape. It is especially important to insulate all unused speaker leads, which if left uncovered may cause a short circuit.
- For connecting a power amp or other devices to this product, refer to the manual for the product to be connected.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

Notice for the blue/ white lead

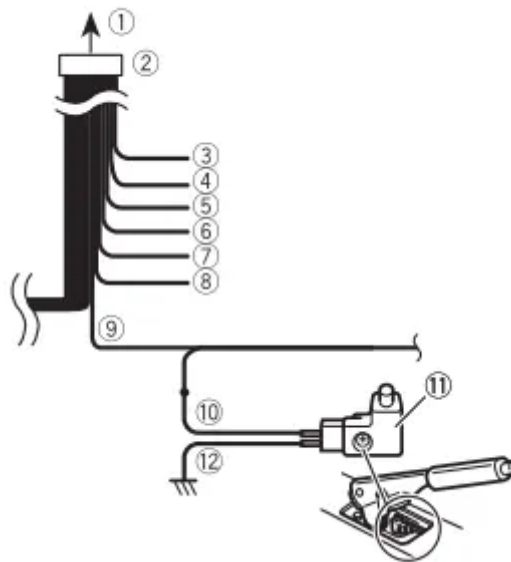
- When the ignition switch is turned on (ACC ON), a control signal is output through the blue/white lead. Connect to an external power amp's system remote control terminal, the auto-antenna relay control terminal, or the antenna booster power control terminal (max. 300 mA 12 V DC). The control signal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

Rear panel



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

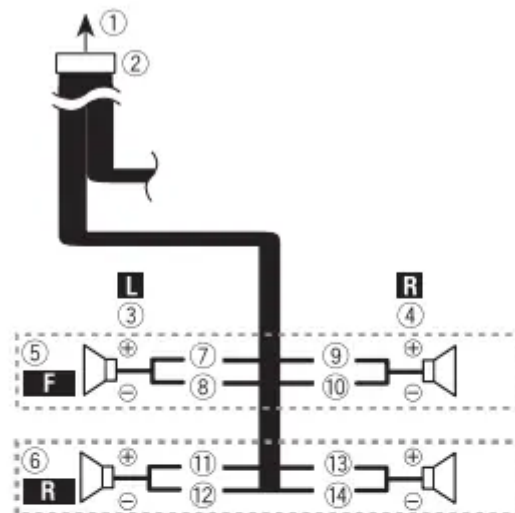
Power cord



- 1. To power supply
- 2. Power cord
- 3. Yellow To terminal supplied with power regardless of ignition switch position.
- 4. Red To electric terminal controlled by ignition switch (12 V DC) ON/OFF
- 5. Orange/white To lighting switch terminal.

6. Black (ground) To vehicle (metal) body.
7. Violet/white Of the two lead wires connected to the back lamp, connect the one in which the voltage changes when the gear shift is in the REVERSE (R) position. This connection enables the unit to sense whether the car is moving forward or backward.
8. Blue/white Connect to system control terminal of the power amp (max. 300 mA 12 V DC).
9. Light green Used to detect the ON/OFF status of the parking brake. This lead must be connected to the power supply side of the parking brake switch.
10. Power supply side
11. Parking brake switch
12. Ground side

Speaker leads

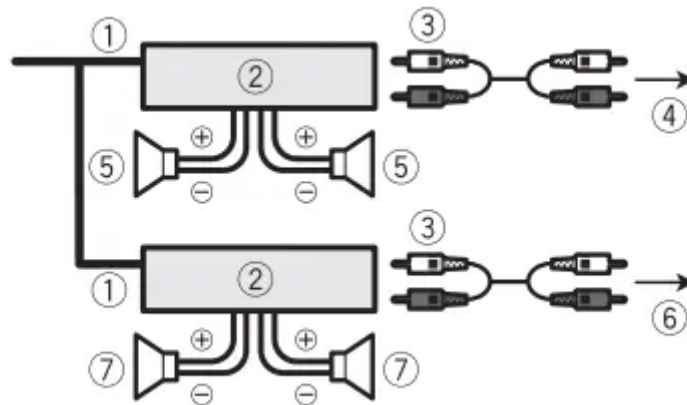


- ① To power supply
- ② Power cord
- ③ Left
- ④ Right
- ⑤ Front speaker
- ⑥ Rear speaker
- ⑦ White
- ⑧ White/black
- ⑨ Gray
- ⑩ Gray/black
- ⑪ Green
- ⑫ Green/black
- ⑬ Violet
- ⑭ Violet/black

Power amp (sold separately)

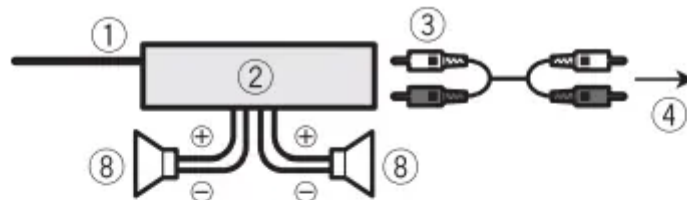
Without internal amp

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



With internal amp

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



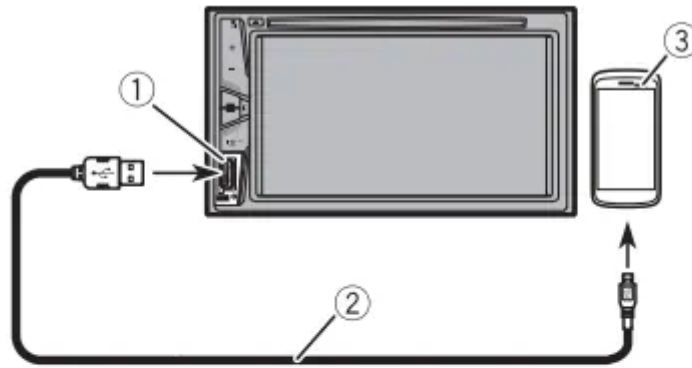
- ① System remote control
Connect to Blue/white cable.
- ② Power amp (sold separately)
- ③ Connect with RCA cable (sold separately)
- ④ To Rear or subwoofer output
- ⑤ Rear speaker or subwoofer
- ⑥ To Front output
- ⑦ Front speaker
- ⑧ Subwoofer

NOTES

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

Smartphone (Android™ device)

Connecting via the USB port



- ① USB port
- ② USB - micro USB cable (Type USB A - micro USB B) (supplied with CD-MU200 (sold separately))
USB Type-C cable (Type USB A - USB C) (supplied with CD-CU50 (sold separately))
- ③ Smartphone

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

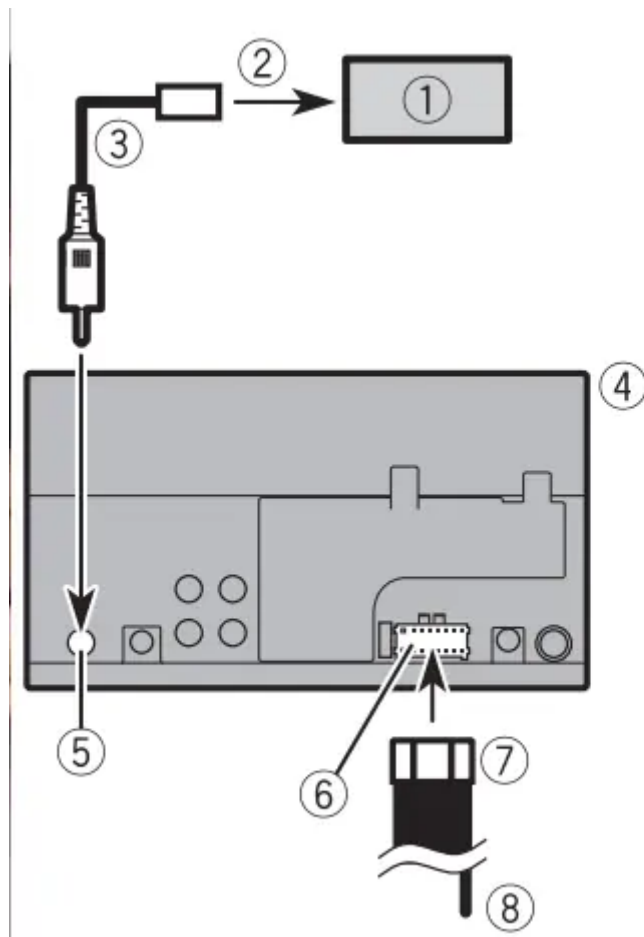
Camera

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

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

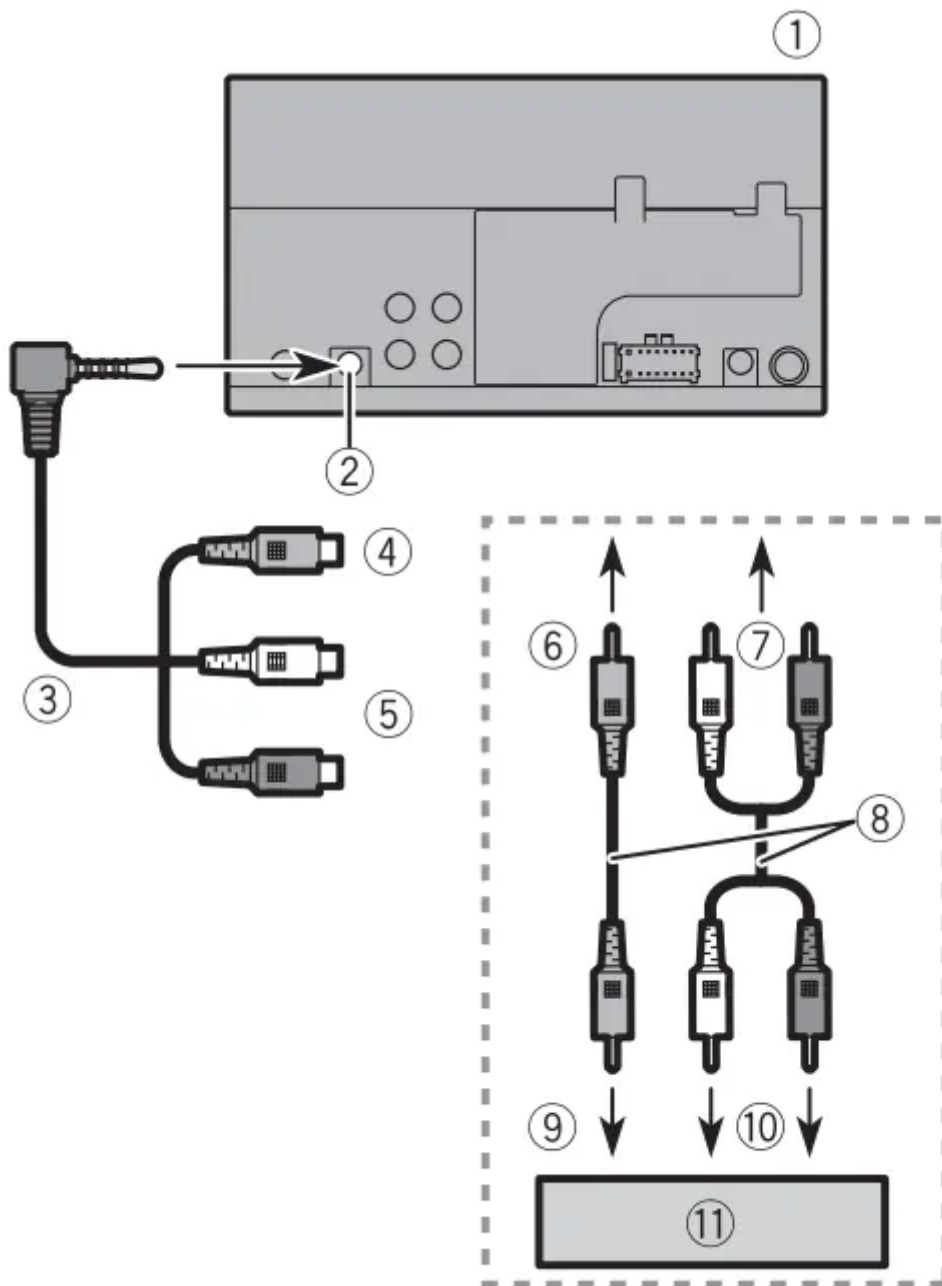
CAUTION

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



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

External video component and the display



1. This product
2. AUX input
3. Mini-jack AV cable (sold separately)
4. Yellow
5. Red, white
6. To Yellow
7. To Red, white

8. RCA cables (sold separately)
9. To video output
10. To audio outputs
11. External video component (sold separately)

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

1. 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

1. 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.
2. 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.
3. No sounds are produced. The volume level will not rise.
 - 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



4. 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.)

5. 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.

6. 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.)

7. 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.)

8. 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

1. Dialing is impossible because the touch panel keys for dialing are inactive.

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

Error messages

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

Common

1. 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.

Disc

1. Error-02-XX

- 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 RESET.

2. Skipped

- The inserted disc contains DRM protected files. – The protected files are skipped.

3. Protect

- All the files on the inserted disc are embedded with DRM. – Replace the disc.

4. 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.

USB storage device

1. 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.

2. Skipped

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

3. Protect

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

Bluetooth

1. Error-10

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

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

Handling and care of discs

Some basic precautions are necessary when handling your discs.

Built-in drive and care

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

- Road shocks may interrupt disc playback.
- Read the precautions for discs before using them.

Ambient conditions for playing a disc

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

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.