DIGITAL MEDIA RECEIVER

MVH-S329BT

Owner's Manual

Table of Contents

About this manual:

- In the following instructions, a USB memory or USB audio player are referred to as "USB device".

Before You Start

Thank you for purchasing this PIONEER product
To ensure proper use, please read through this manual before using this product. It is especially important that you read and observe **WARNING**s and **CAUTION**s in this manual. Please keep the manual in a safe and accessible place for future reference.

⚠ WARNING

- **Do not attempt to install or service this product by yourself. Installation or servicing of this product by persons without training and experience in electronic equipment and automotive accessories may be dangerous and could expose you to the risk of electric shock, injury or other hazards.**
- Do not attempt to operate the unit while driving. Make sure to pull off the road and park your vehicle in a safe location before attempting to use the controls on the device.

⚠ CAUTION

- Do not allow this unit to come into contact with moisture and/or liquids. Electrical shock could result. Also, damage to this unit, smoke, and overheating could result from contact with liquids.
- Always keep the volume low enough to hear outside sounds.
- This product is evaluated in moderate and tropical climate condition under the Audio, video and similar electronic apparatus - Safety requirements, IEC 60065.
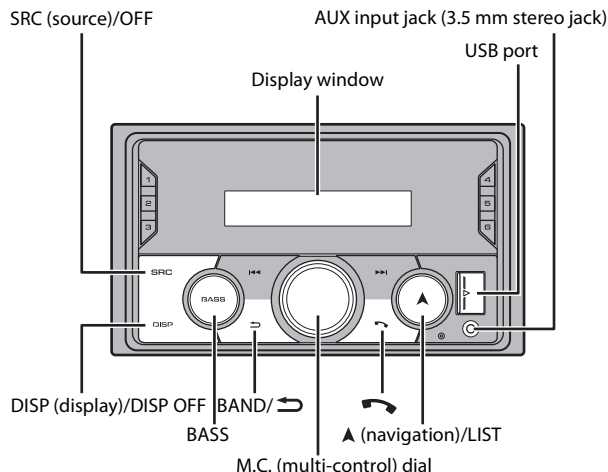
If you experience problems

Should this unit fail to work properly, please contact your dealer or nearest authorized PIONEER Service Station.
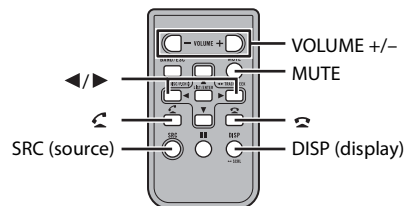
Getting Started

Basic operation

MVH-S329BT

SRC (source)/OFF

AUX input jack (3.5 mm stereo jack)

USB port

Display window

SRC

BASS

DISP (display)/DISP OFF   BAND/⏎
BASS

▲ (navigation)/LIST

M.C. (multi-control) dial

Remote Control

VOLUME +/−

◀/▶

MUTE

✆

☎

SRC (source)

DISP (display)

Frequently used operations

Purpose	Operation	
	Head Unit	**Remote Control**
Turn on the power*	Press **SRC**/**OFF** to turn on the power. Press and hold **SRC**/**OFF** to turn off the power.	Press **SRC** to turn on the power. Press and hold **SRC** to turn off the power.
Adjust the volume	Turn the **M.C.** dial.	Press **VOLUME +** or **−**. Press **MUTE** to mute the unit. Press **MUTE** again or press **VOLUME +** or **−** to unmute.
Select a source	Press **SRC**/**OFF** repeatedly.	Press **SRC** repeatedly.
Change the display information	Press **DISP**/**DISP OFF** repeatedly. Press and hold **DISP**/ **DISP OFF** to turn off the display information.	Press **DISP** repeatedly.
Return to the previous display/list	Press **BAND/⏎** .	Press ◀/▶ to select the next/previous folder.

En 3

Purpose	Operation	
	Head Unit	**Remote Control**
Return to the normal display from the menu	Press and hold **BAND/ ⊃** .	–
Change the display brightness	Press and hold **BAND/ ⊃** .	–
Answering a call	Press any button.	Press 📞.
Ending a call	Press ☎.	Press ☎.
Boost the bass level	Press **BASS**. • You can select the bass level ([HI] or [LOW]) in [D.BASS] (page 17).	–

* When this unit's blue/white lead is connected to the vehicle's auto-antenna relay control terminal, the vehicle's antenna extends when this unit's source is turned on. To retract the antenna, turn the source off.

Display indication

Indication	Description
⋗	Appears when a lower tier of the menu or folder exists.
TP	Appears when a traffic program is received.
BASS	Appears when the **BASS** function is activated.
⤬	Appears when random/shuffle play is set (except when BT AUDIO is selected as the source).
⇄	Appears when repeat play is set (except when BT AUDIO is selected as the source).
🅑	Appears when a Bluetooth connection is made (page 8).
APP	Appears when a Pioneer Smart Sync connection is made (page 12).

Resetting the microprocessor

The microprocessor must be reset in the following situations:
  – Before using this unit for the first time after installation
  – If the unit fails to operate properly
  – When strange or incorrect messages appear on the display

1 Press the RESET button with a pen tip or other pointed instrument.

RESET button
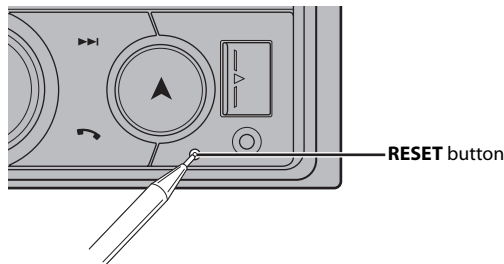
Preparing the remote control

Remove the insulation sheet before use.

How to replace the battery

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

⚠ WARNING

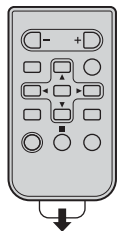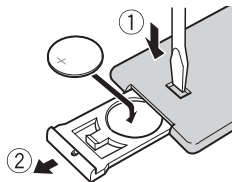- Do not ingest the battery, Chemical Burn Hazard.
  (The remote control supplied with) This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
  Keep new and used batteries away from children.
  If the battery compartment does not close securely, stop using the product and keep it away from children.
  If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
- Batteries (battery pack or batteries installed) must not be exposed to excessive heat such as sunshine, fire or the like.

⚠ CAUTION

- There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not handle or store the battery with metallic tools or objects.
- If the battery leaks, remove the battery and wipe the remote control completely clean. Then install a new battery.
- When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country/area.

🔄 Important

- Do not store the remote control in high temperatures or direct sunlight.
- Do not let the remote control fall onto the floor, where it may become jammed under the brake or accelerator pedal.

Setup menu

When you turn the ignition switch to ON after installation, the setup menu appears in the display.

1 Turn the M.C. dial to select the options, then press to confirm.

To proceed to the next menu option, you need to confirm your selection.

Menu Item	Description
CLOCK SET	Set the clock. **1** Turn the **M.C.** dial to adjust the hour, then press to confirm. The indicator moves to the minute setting automatically. **2** Turn the **M.C.** dial to adjust the minute, then press to confirm.
FM STEP [100], [50]	Select the FM tuning step from 100 kHz or 50 kHz.
AM STEP [10], [9]	Select the AM tuning step from 10 kHz or 9 kHz.

2 [QUIT :YES] appears.

To return to the first item of the setup menu, turn the **M.C.** dial to select [QUIT :NO], then press to confirm.

3 Press the M.C. dial to confirm the settings.

NOTE

These settings can be made at any time from the SYSTEM settings (page 17) and INITIAL settings (page 6).

Canceling the demonstration display (DEMO OFF)

1 Press the M.C. dial to display the main menu.

2 Turn the M.C. dial to select [SYSTEM], then press to confirm.

3 Turn the M.C. dial to select [DEMO OFF], then press to confirm.

**4** Turn the M.C. dial to select [YES], then press to confirm.

INITIAL settings

1 Press and hold SRC/OFF until the unit turns off.

2 Press the M.C. dial to display the main menu.

3 Turn the M.C. dial to select [INITIAL], then press to confirm.

4 Turn the M.C. dial to select an option, then press to confirm.

Menu Item	Description
FM STEP [100], [50]	Select the FM tuning step from 100 kHz or 50 kHz.
AM STEP [10], [9]	Select the AM tuning step from 10 kHz or 9 kHz.
SP-P/O MODE [REAR/SUB.W]	Select when there is a full-range speaker connected to the rear speaker output leads and there is a subwoofer connected to the RCA output.
[SUB.W/SUB.W]	Select when there is a passive subwoofer connected directly to the rear speaker output leads and there is a subwoofer connected to the RCA output.
[REAR/REAR]	Select when there are full-range speakers connected to the rear speaker output leads and RCA output. If there is a full-range speaker connected to the rear speaker output leads, and the RCA output is not used, you may select either [REAR/SUB.W] or [REAR/REAR].

Menu Item	Description
SYSTEM UPDATE [SYSTEM INFO], [S/W UPDATE]	Select [SYSTEM INFO] to confirm the latest system information on the unit. Select [S/W UPDATE] to update the unit to the latest software and initialize the unit settings. For details on the latest software and updating, visit our website.
SYSTEM RESET [YES], [NO]	Select [YES] to initialize the unit settings. The unit will be restarted automatically.

Radio

Receiving preset stations

1 Press SRC/OFF to select [RADIO].

2 Press BAND/⇌ to select the band from [FM1], [FM2], [FM3], [AM], [SW1] or [SW2].

3 Press a number button (1/∧ to 6/⇌).

TIP
The ◄◄/►► buttons can be also used to select a preset station when [SEEK] is set to [PCH] in the FUNCTION settings (page 15).

Best stations memory (BSM)

The six strongest stations are stored on the number buttons (1/∧ to 6/⇌).

1 After selecting the band, press the M.C. dial to display the main menu.

2 Turn the M.C. dial to select [FUNCTION], then press to confirm.

3 Turn the M.C. dial to select [BSM], then press to confirm.

To seek a station manually

1 After selecting the band, press ◄◄/►► to select a station.
Press and hold ◄◄/►► then release to seek an available station.
Scanning stops when the unit receives a station. To cancel seek tuning,
press ◄◄/►►.

NOTE
[SEEK] needs to be set to [MAN] in the FUNCTION settings (page 15).

To store stations manually

**1 While receiving the station you want to store, press and hold one of the
number buttons (1/∧ to 6/⇄) until it stops flashing.**

Using PTY functions

The unit searches for a station by PTY (program type) information.

1 Press and hold ∧ during FM reception.

**2 Turn the M.C. dial to select a program type from [NEWS/INFO],
[POPULAR], [CLASSICS] or [OTHERS].**

3 Press the M.C. dial.
The unit begins to search for a station. When it is found, its program service
name is displayed.

NOTES
- To cancel the search, press the **M.C.** dial.
- The program of some stations may differ from that indicated by the transmitted PTY.
- If no station is broadcasting the type of program you searched for, [NOT FOUND] is
displayed for about two seconds and then the tuner returns to the original station.

USB/AUX

Playing back

Disconnect headphones from the device before connecting it to the unit.

USB devices (including Android™)

1 Open the USB port cover.

2 Plug in the USB device using an appropriate cable.

NOTE
To automatically switch to USB source when a USB device is connected to the unit, set [USB
AUTO] to [ON] in the SYSTEM settings (page 18).

⚠ CAUTION
Use a USB cable (sold separately) to connect the USB device as any device connected
directly to the unit will protrude out from the unit, which could be dangerous.

Before removing the device, stop playback.

AOA connections
A device running Android OS 4.1 or later installed and also supports AOA
(Android Open Accessory) 2.0 can be connected to the unit via AOA, using the
cable supplied with the device.

NOTE
If you use an AOA connection, [APP CONTROL] needs to be set to [WIRED] (page 18) and
[USB MTP] needs to be set to [OFF] (page 18) in the SYSTEM settings.

MTP connection
A device installed with Android OS 4.0 or most of later versions can be connected to the
unit via MTP, using the cable supplied with the device. However, depending on the
connected device, OS version or the numbers of the files in the device, audio files/songs
may not be able to be played back via MTP. Note that MTP connection is not compatible
with WAV file formats and FLAC file formats, and cannot be used with the MIXTRAX
function.

NOTE

If you use an MTP connection, [USB MTP] needs to be set to [ON] in the SYSTEM settings (page 18).

AUX

1 Insert the stereo mini plug into the AUX input jack.

2 Press SRC/OFF to select [AUX IN] as the source.

NOTE

If [AUX] is set to [OFF] in the SYSTEM settings, [AUX IN] cannot be selected as a source (page 17).

Operations

Note that the following operations do not work for an AUX device. To operate an AUX device, use the device itself.

Purpose	Operation
Select a folder*1	Press **1**/ ∧ or **2**/ ∨ .
Select a track/song	Press ⏮ or ⏭ .
Fast forward or reverse*2	Press and hold ⏮ or ⏭ .
Search for a file from a list	**1** Press and hold ∧ to display the list. **2** Turn the **M.C.** dial to select the desired file (folder) name or category, then press to confirm. **3** Turn the **M.C.** dial to select the desired file, then press to confirm. Playback starts.
View a list of the files in the selected folder/category*1	Press the **M.C.** dial when a folder/category is selected.
Play a song in the selected folder/category*1	Press and hold the **M.C.** dial when a folder/category is selected.
Repeat play	Press **6**/↩.
Random play	Press **5**/✕✕.

Purpose	Operation
Pause/resume playback	Press **4**/**PAUSE**.
Return to root folder (USB only)*1	Press and hold **1**/ ∧ .

*1 Compressed audio files only
*2 When you use the fast forward or reverse function while playing a VBR file, the playback time may be not correct.

About MIXTRAX (USB only)

The MIXTRAX function creates a non-stop mix of your music library. For details on MIXTRAX settings, see page 18.

NOTE

Depending on the file/song, sound effects may not be available.

1 Press 3/MIX to turn MIXTRAX on/off.

Bluetooth

Bluetooth connection

⊕ Important

If ten or more Bluetooth devices (e.g. a phone and separate audio player) are connected, they may not work properly.

TIP

The next connection to the unit is performed automatically if the Bluetooth device has been connected previously in the following steps.

1 Turn on the Bluetooth function of the device.

If you make a Bluetooth connection from the device, proceed to step 4.

2 Press ⟩ to display the [ADD DEVICE] setting.

The unit starts to search for available devices, then displays them in the device list.

- To cancel searching, press the **M.C.** dial.
- If the desired device is not in the list, select [RE-SEARCH].
- If there is no device available, [NOT FOUND] appears in the display.
- If there is already a connected device, the phone menu appears by pressing 📞.

3 **Turn the M.C. dial to select a device from the device list, then press to confirm.**
Press and hold the **M.C.** dial to switch the displayed device information between the Bluetooth device address and device name.
If you make a Bluetooth connection from the unit, proceed to step 5.

4 **Select the unit name shown in the device display.**

5 **Make sure the same 6-digit number appears on this unit and the device, then select [YES] if the 6-digit numbers displayed on this unit and the device are the same.**

Bluetooth telephone

First, make a Bluetooth connection with the Bluetooth telephone (page 8). Up to two Bluetooth telephones can be connected simultaneously.

🔁 Important
- Leaving the unit on standby to connect to your phone via Bluetooth while the engine is not running can drain the vehicle's battery.
- Be sure to park your vehicle in a safe place and apply the parking brake before operation.

To make a phone call

1 **Press 📞 to display the phone menu.**
When two phones are connected, a phone name appears first then a phone menu will display. To switch to another phone, press 📞 again.

2 **Turn the M.C. dial to select [RECENTS] or [PHONE BOOK], then press to confirm.**
If you select [PHONE BOOK], proceed to step 4.

3 **Turn the M.C. dial to select [MISSED], [DIALLED] or [RECEIVED], then press to confirm.**

4 **Turn the M.C. dial to select a name or phone number, then press to confirm.**
The phone call starts.

To answer an incoming call

1 **Press any button when a call is received.**

TIP
When two phones are connected to the unit via Bluetooth and there is an incoming call while one phone is being used for a call, a message will appear in the display. To answer that incoming call, you need to end the existing call.

Basic operations

Purpose	Operation
End a call	Press 📞.
Reject an incoming call	Press and hold 📞 when a call is received.
Switch between the current caller and a caller on hold	Press the **M.C.** dial.
Cancel a caller on hold	Press and hold 📞.
Adjust the volume of the caller's voice (When private mode is on, this function is not available.)	Turn the **M.C.** dial during the call.
Turn the private mode on or off	Press **BAND**/⤴ during the call.

To preset phone numbers

1 **Select a phone number from a phone book or call history.**

2 **Press and hold one of the number buttons (1/∧ to 6/⇄).**
The contact is stored in the selected preset number.

To make a call using a preset number, press one of the number buttons (**1**/∧ to **6**/↩), then press the **M.C.** dial, while the phone menu is displayed.

Voice recognition

This function is only available when an Android device equipped with voice recognition is connected to the unit via Bluetooth.

1 Press and hold 📞 and then talk into the microphone to input voice commands.

To exit the voice recognition mode, press **BAND**/↩.

NOTE
For details on the voice recognition features, refer to the manual supplied with your device.

TIP
When a Pioneer Smart Sync connection is made (page 12), you can also use the voice recognition function from Pioneer Smart Sync installed on your Android device by pressing and holding 📞. For details on the voice recognition features, see the application's help section.

Phone menu

1 Press 📞 to display the phone menu.

Menu Item	Description
RECENTS	Display the missed call history.
[MISSED]	
[DIALLED]	Display the dialed call history.
[RECEIVED]	Display the received call history.
PHONE BOOK	Display the contacts in your phone.
PRESET 1-6	Recall the preset phone numbers. You can also recall the preset phone numbers by pressing one of the number buttons (**1**/∧ to **6**/↩).
A.ANSR*	Select [ON] to answer an incoming call automatically.
[ON], [OFF]	

Menu Item	Description
PB INVT	Invert the order of names in the phone book (name view).
DEVICELIST	Display the list of paired Bluetooth devices. "*" appears on the device name when the Bluetooth connection is established. When no device is selected in the device list, this function is not available.
DEL DEVICE [DELETE YES], [DELETE NO]	Delete the device information.
ADD DEVICE	Register a new device.
DEV. INFO	Switch the device information on the display between the device name and Bluetooth device address.

* If two phones are connected, this function does not work on incoming calls that are received while one of the phones is being used for a call.

Bluetooth audio

⊕ Important
- Depending on the Bluetooth audio player connected to this unit, the available operations will be limited to the following two levels:
  – A2DP (Advanced Audio Distribution Profile) can only play back songs on your audio player.
  – AVRCP (Audio/Video Remote Control Profile) can perform functions such as playback, pause, select song, etc.
- The sound of the Bluetooth audio player will be muted when the phone is in use.
- When the Bluetooth audio player is in use, you cannot connect to a Bluetooth telephone automatically.
- Depending on the type of Bluetooth audio player you have connected to this unit, operation and information displayed may vary based on availability and functionality.

1 Make a Bluetooth connection with the Bluetooth audio player.

2 Press SRC/OFF to select [BT AUDIO] as the source.

3 Press BAND/↩ to start playback.

NOTE

You must reconnect the Bluetooth connection when the source is switched or the unit is turned off.

TIP

When more than two and up to five devices are registered to the unit via Bluetooth, you can switch the Bluetooth device by playing back songs on the device. By doing so, playing back a song from the Bluetooth device of each passenger is easily available. However, depending on the usage conditions, multiple connections may not be available and the audio files/ songs may not be able to be played back properly.

Basic operations

You can make various adjustments in the FUNCTION settings (page 15).

Purpose	Operation
Fast forward or reverse	Press and hold ◄◄ or ►►.
Select a track	Press ◄◄ or ►►.
Repeat play*	Press **6**/🔁.
Random play*	Press **5**/🔀.
Pause/resume playback	Press **4**/**PAUSE**.
Search for a file from a list	1 Press and hold ▲ to display a list. 2 Turn the **M.C.** dial to select the desired folder name, then press to confirm. 3 Turn the **M.C.** dial to select the desired file, then press to confirm. Playback starts.

* Depending on the connected device, these operations may not be available.

Spotify®

(Not available when [USB MTP] is set to [ON] in the SYSTEM settings (page 18).)
Spotify is a music streaming distribution service not affiliated with Pioneer.
More information is available at http://www.spotify.com.

The Spotify application is available for compatible smartphones, please visit https://support.spotify.com/ for the latest compatibility information.
To enjoy Spotify as you drive, first download the Spotify app to your Android device. You can download it on the Google Play™. Choose a free account or a paid Premium account, either in the app or at spotify.com. A Premium account gives you more features, like offline listening.

🔁 **Important**
- This product incorporates Spotify software which is subject to 3rd party licenses found here: www.spotify.com/connect/third-party-licenses.
- For information on the countries and regions where Spotify can be used, take a look at https://www.spotify.com/us/select-your-country/.

Listening to Spotify

Update the firmware of the Spotify application to the latest version before use.

1 **Connect this unit with the mobile device.**
   - Android device via Bluetooth (page 8)

2 **Press SRC/OFF to select [SPOTIFY].**

3 **Press and hold 1/∧ to display [APP CONTROL].**

4 **Turn the M.C. dial to select [BLUETOOTH] for the Bluetooth connection.**

5 **Press SRC/OFF to select [SPOTIFY].**

6 **Launch the Spotify application on the mobile device and start playback.**

NOTE

When you connect a mobile device other than an Android device, it may not operate correctly depending on your mobile device.

Basic operations

You can make various adjustments in the FUNCTION settings (page 15).

NOTE

The available operations may vary according to the type of contents (track/album/artist/ playlist/radio) you want to play.

Purpose	Operation
Skip a track	Press ⏮ or ⏭.
Search for a track from a list	**1** Press and hold ⋀ to display the list. **2** Turn the **M.C.** dial to select the desired category, then press to confirm. **3** Turn the **M.C.** dial to select the desired file, then press to confirm. Playback starts.
Pause/resume playback	Press **4/PAUSE**.
Thumbs Up (Only for radio)	Press **1/⋀**.
Thumbs Down (Only for radio)	Press **2/⋁**.
Random play (Only for track/album/artist/playlist)	Press **5/✕✕**.
Repeat play (Only for track/album/artist/playlist)	Press **6/↩**.
Start a radio channel based on the song currently being played.	**1** Press and hold **5/✕✕** to start a radio. **2** Press the **M.C.** dial. • This function may not be available depending on the selected song.

NOTE
Some functions of Spotify may not be operated from the unit.

Using Pioneer Smart Sync/APP

Pioneer Smart Sync is the application that intelligently brings your maps, messages, and music together in the vehicle.
You can operate the unit from Pioneer Smart Sync installed on an Android device. In some cases, you can control aspects of the application, such as source selection, pause, etc., by using the unit.
For details on what operations are available on the application, see the application's help section.

12 En

NOTE
The APP source is not available when a Pioneer Smart Sync connection is not made or [USB MTP] is set to [ON] in the SYSTEM settings (page 18).

⚠ WARNING

Do not attempt to operate the application while driving. Make sure to pull off the road and park your vehicle in a safe location before attempting to use the controls on the application.

For Android device users
For Bluetooth connections, this function is compatible with devices that have Android OS 5.0 or later installed.
For USB connections, this function is compatible with a phone that runs Android 5.0 or later up to 7.1.2 and also supports AOA (Android Open Accessory) 2.0. However, the compatibility depends on the smartphone.
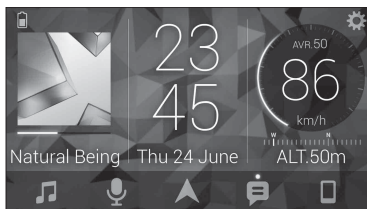You can download Pioneer Smart Sync on Google Play.

NOTE
Some Android devices connected via AOA 2.0 may not work properly or emit sounds due to their own software design, regardless of the OS version.

What kind of function does the application have?

Promoting the use of the unit
The interface of the unit can be evolved by using your Android device.

Image (example):

Examples:
- Selecting a source of the unit
- Listening to the music on your Android device
- Controlling the sound field intuitively
- Controlling your connected Bluetooth device

Extending the functions of the unit by using the application

The following functions, which are unavailable on the unit alone, are available by making a Pioneer Smart Sync connection.

Menu Item (example)	Description
Using a navigation application	You can specify and start the navigation application installed on your device.
Message reading	You can read messages received from the apps installed on your device.
31 Band EQ setting	You can select an equalizer band from the 31-band graphic equalizer (13-band for not using the Pioneer Smart Sync connection).
Super "Todoroki" Sound	You can boost the bass level more dynamically than when not using the Pioneer Smart Sync connection.

Menu Item (example)	Description
Easy Sound Fit	You can perform the time alignment setting easily by selecting your vehicle type.

NOTES
- Some functions may be restricted depending on the connection conditions with the application.
- The 31 Band EQ setting is converted into 13 bands when a music source from this product is engaged.

TIP
It is recommended to enter the search term "Pioneer Smart Sync" in the search field to search for the application.

Making a connection with Pioneer Smart Sync

1 Press the M.C. dial to display the main menu.

2 Turn the M.C. dial to select [SYSTEM], then press to confirm.

3 Turn the M.C. dial to select [APP CONTROL], then press to confirm.

4 Turn the M.C. dial to select one of the below.
- Select [WIRED] for the USB connection.
- Select [BLUETOOTH] for the Bluetooth connection.

5 Turn the M.C. dial to select [AUTO APP CONN], then press to confirm.

6 Turn the M.C. dial to select [ON], then press to confirm.

7 Connect this unit with the mobile device.
- Android device via USB (page 7)

• Android device via Bluetooth (page 8)
Pioneer Smart Sync on the device starts automatically.

NOTE
Regardless of whether the [AUTO APP CONN] setting is set to [ON] or [OFF], you can also perform the following to start Pioneer Smart Sync.
• For devices other than the USB-connected Android device, press **SRC/OFF** to select any source and press and hold the **M.C.** dial.

NOTES
• When you connect a mobile device other than an Android device, it may not operate correctly depending on your mobile device.
• If Pioneer Smart Sync has not been installed on your Android device yet, a message that prompts you to install the application will appear on your Android device (except for the Android device connected via Bluetooth). Select [OFF] in [AUTO APP CONN] to clear the message (page 18).

Listening to music on your device

1 Press **SRC/OFF** to select [APP].

Audio Adjustments

You can also make various adjustments in the AUDIO settings (page 15).

Adjusting the cut-off frequency value and the slope value

You can adjust the cut-off frequency value and the slope value of each speaker. The following speakers can be adjusted.
[FRONT], [REAR], [SUBWOOFER]

NOTE
[SUBWOOFER] can only be selected when [ON] is selected in [SUBWOOFER] (page 16).

1 Press the **M.C.** dial to display the main menu.

2 Turn the **M.C.** dial to select [AUDIO], then press to confirm.

3 Turn the **M.C.** dial to select [CROSSOVER], then press to confirm.

4 Turn the **M.C.** dial to select the speaker unit (filter) to be adjusted, then press to confirm.

5 Turn the **M.C.** dial to select [HPF] or [LPF] according to the speaker unit (filter), then press to confirm.

6 Turn the **M.C.** dial to select an appropriate cut-off frequency for the speaker unit (filter) selected in step 4, then press to confirm.
[25HZ] to [250HZ]

7 Turn the **M.C.** dial to select an appropriate slope for the speaker unit (filter) selected in step 4.
[–6] to [–24] (if you choose [FRONT] or [REAR])
[–6] to [–36] (if you choose [SUBWOOFER])

Settings

You can adjust various settings in the main menu.

1 Press the **M.C.** dial to display the main menu.

2 Turn the **M.C.** dial to select one of the categories below, then press to confirm.
• FUNCTION settings (page 15)
• AUDIO settings (page 15)
• SYSTEM settings (page 17)
• ILLUMINATION settings (page 18)
• MIXTRAX settings (page 18)

3 Turn the **M.C.** dial to select the options, then press to confirm.

FUNCTION settings

The menu items vary according to the source.

Menu Item	Description
BSM `RADIO`	
	Store the six strongest stations on the number buttons (**1**/∧ to **6**/↩) automatically.
REGIONAL `RADIO`	
[ON], [OFF]	Limit the reception to the specific regional programs when AF (alternative frequencies search) is selected. (Available only when FM band is selected.)
LOCAL `RADIO`	
FM: [OFF], [LV1], [LV2], [LV3], [LV4] **AM/SW:** [OFF], [LV1], [LV2]	Restrict the tuning station according to the signal strength.
TA `RADIO`	
[ON], [OFF]	Receive current traffic information if available. (Available only when FM band is selected.)
AF `RADIO`	
[ON], [OFF]	Allow the unit to retune to a different frequency providing the same station. (Available only when FM band is selected.)
NEWS `RADIO`	
[ON], [OFF]	Interrupt the currently selected source with news programs. (Available only when FM band is selected.)

Menu Item	Description
ALARM `RADIO`	
[ON], [OFF]	Interrupt the currently selected source with emergency announcements. Select [OFF] to disable this function.
SEEK `RADIO`	
[MAN], [PCH]	Assign ◀◀ or ▶▶ buttons to seek the stations one by one (manual tuning) or select a station from the preset channels.
SAVE `SPOTIFY`	
	Store the information about the song currently being played to your music list on Spotify.
UNSAVE `SPOTIFY`	
	Remove the song information stored in [SAVE].
SEL DEVICE `BT AUDIO` `SPOTIFY`	
	Connect a Bluetooth device in the list.
PLAY `BT AUDIO`	
	Start playback.
STOP `BT AUDIO`	
	Stop playback.

AUDIO settings

NOTE
[CHK APP SETTG.] may be displayed when the setting is performed from Pioneer Smart Sync.

Menu Item	Description
EQ SETTING	
[SUPER BASS], [POWERFUL], [DYNAMIC], [TODOROKI], [VOCAL], [VIVID], [SET BY APP]*, [CUSTOM1], [CUSTOM2], [FLAT] * [SET BY APP] is displayed when the preset equalizer curve that is not available in the unit has been set from Pioneer Smart Sync.	Select or customize the equalizer curve. • When you select a setting other than [CUSTOM1], [CUSTOM2] and [SET BY APP], you can also customize the equalizer curve by pressing and holding the **M.C.** dial, then store the customized equalizer curve in [CUSTOM1].
Select an equalizer band and level for further customizing. **Equalizer band:** [50HZ] to [12.5kHZ] **Equalizer level:** [–6] to [+6]	
FADER*1	
	Adjust the front and rear speaker balance.
BALANCE	
	Adjust the left and right speaker balance.
SUBWOOFER	
[ON], [OFF]	Set to [ON] when using a subwoofer speaker.
SUBWOOFER*2	
[NOR], [REV]	Select the subwoofer phase.
SPEAKER LEVEL	
Types of speaker: [FRONT L], [FRONT R], [REAR L], [REAR R], [SUBWOOFER] **Output level:** [–24] to [10]	Select a speaker unit (filter) and adjust the output level. • Each value you have adjusted changes when you change the [POSITION] setting (page 16).

Menu Item	Description
CROSSOVER	
	Select a speaker unit (filter) to adjust the HPF or LPF cut-off frequency and the slope for each speaker unit. For details on the [CROSSOVER] setting, see page 14.
POSITION	
[OFF], [FRONT LEFT] (front seat left), [FRONT RIGHT] (front seat right), [FRONT] (front seats), [ALL]	Select a listening position to adjust the speakers' output levels automatically and add a delay time that corresponds to the number and locations of occupied seats.
TIME ALGNMNT	
[INITIAL], [OFF], [CUSTOM] Select a type of speaker and adjust the speaker distance for further customizing in [CUSTOM]. **Types of speaker:** [FRONT L], [FRONT R], [REAR L], [REAR R], [SUBWOOFER] **Speaker distance (cm):** [350] to [0.0]	Select or customize the time alignment settings to reflect the distance between the listener's position and each speaker. • Select [INITIAL] to initialize the setting value. • Select [OFF] to reset all setting values to 0. • The [CUSTOM] setting is available when [FRONT LEFT] or [FRONT RIGHT] is selected in [POSITION] (page 16). • The [CUSTOM] setting is not available when [OFF] is selected in [SUBWOOFER] (page 16).

Menu Item	Description
SAVE SETTINGS	
[YES], [NO]	Save to later recall the following sound settings at their current values: [CROSSOVER], [SPEAKER LEVEL], [EQ SETTING], [POSITION], [TIME ALGNMNT], [D.BASS], [SUBWOOFER]. • The settings that can be saved differ when a Pioneer Smart Sync connection is made.
LOAD SETTINGS	
	Load the sound settings, when you have already performed [SAVE SETTINGS].
D.BASS	
[OFF], [LOW], [HI]	Boost the bass level dynamically to offer an effect as if a subwoofer was added to the system.
LOUDNESS	
[OFF], [LOW], [MID], [HI]	Compensate for clear sound at low volume.
SLA	
[+4] to [–4]	Adjust the volume level for each source except FM. Each of the below combinations are set to the same setting automatically. • When making a USB connection, set USB and APP. • When making a Bluetooth connection, set BT AUDIO and APP.
S.RTRV	
[1] (effective for low compression rates), [2] (effective for high compression rates), [OFF]	Enhance compressed audio and restore rich sound.

*1 Not available when [SUB.W/SUB.W] is selected in [SP-P/O MODE] in the INITIAL settings (page 6).
*2 Not available when [REAR/REAR] is selected in [SP-P/O MODE] in the INITIAL settings (page 6).

English

SYSTEM settings

You can also access to these menus when the unit is turned off.

Menu Item	Description
CLOCK SET	
[12H], [24H]	Set the clock (page 5). • This setting is not available when a Pioneer Smart Sync connection is made.
SCROLL SET	
[ONCE], [LOOP], [OFF]	Select the way to scroll the text in the display window.
BEEP TONE	
[ON], [OFF]	A beep can be heard when any button is pushed. Select [OFF] to disable this function.
INFO DISPLAY	
[SOURCE/SPEANA], [CLOCK/SPEANA], [SRC/LIVE FX], [CLOCK/LIVE FX], [SOURCE], [SPEANA], [OFF]	Display the item on the sub information display. • When [SOURCE/SPEANA] or [CLOCK/SPEANA] is selected, display the antenna instead of the speana on the radio source.
AUTO PI	
[ON], [OFF]	Search for a different station with the same programming, even if using a preset station.
AUX	
[ON], [OFF]	Set to [ON] when using an auxiliary device connected to the unit.

Menu Item	Description
BT AUDIO	
[ON], [OFF]	Set the Bluetooth signal on/off.
SPOTIFY	
[ON], [OFF]	Set to [ON] when using the Spotify function.
BT MEM CLEAR	
[YES], [NO]	Clear the Bluetooth device data (device list, PIN code, call history, phone book, preset phone numbers) stored in the unit. [CLEARED] appears when data is successfully deleted.
APP CONTROL	
[WIRED], [BLUETOOTH]	Select the appropriate connection method according to your device.
USB MTP	
[ON], [OFF]	Set to [ON] when using the MTP connection. The following sources are not available when the setting is set to [ON]. • APP and USB (AOA)
AUTO APP CONN	
[ON], [OFF]	Select [ON] to automatically launch Pioneer Smart Sync when the Android device is connected to the unit.
S.REMOTE*1*2	
[OFF], [PIONEER], [PRESET]	Select [PIONEER] or [PRESET] according to your wired remote control.

Menu Item	Description
USB AUTO	
[ON], [OFF]	Select [ON] to automatically switch to USB source when a USB device is connected to the unit. Select [OFF] when a USB device is being connected to the unit just for charging.

*1 Depending on your car, this function may not work properly. In this case, contact your dealer or an authorized PIONEER Service Station.
*2 Please use a commercially available wiring harness for each car model when [PRESET] mode is engaged, and use a commercially available adapter when in [PIONEER].

ILLUMINATION settings

Menu Item	Description
DIM SETTING	
[SYNC CLOCK], [MANUAL]	Select the way to change the display brightness.
BRIGHTNESS	
[1] to [10]	Change the display brightness. The available setting ranges differ depending on [DIM SETTING].

MIXTRAX settings

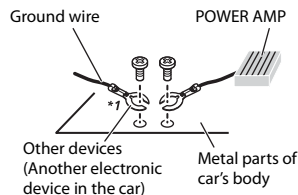| Menu Item	Description
SHORT PLAYBCK	
[1.0 MIN], [1.5 MIN], [2.0 MIN], [2.5 MIN], [3.0 MIN], [OFF]	Select the length of the playback time.

Menu Item	Description
MIX PATTERN	
[SOUND LEVEL]	Change the MIXTRAX special effects according to the audio level. The mix pattern changes according to the sound level.
[LOW PASS]	The mix pattern changes according to the bass level.
[RANDOM]	The mix pattern changes randomly according to the sound level mode and low pass mode.
DISPLAY FX	
[ON], [OFF]	Set the MIXTRAX special effects on/off.
CUT IN FX	
[ON], [OFF]	Turn the MIXTRAX sound effects on/off while manually changing the tracks.

Connections/Installation

Connections

⚠ WARNING

- When speaker output is used by 4 channels, use speakers over 50 W (maximum input power) and between 4 Ω to 8 Ω (impedance value). Do not use 1 Ω to 3 Ω speakers for this unit.
- When rear speaker output is used by 2 Ω of subwoofer, use speakers over 70 W (maximum input power).
  * Please refer to connections for a connection method.
- The black cable is ground. When installing this unit or power amp (sold separately), make sure to connect the ground wire first. Ensure that the ground wire is properly connected to metal parts of the car's body. The ground wire of the power amp and the one of this unit or any other device must be connected to the car separately with different screws. If the screw for the ground wire loosens or falls out, it could result in fire, generation of smoke or malfunction.

Ground wire   POWER AMP

Other devices
(Another electronic
device in the car)
                              Metal parts of
                              car's body

*1 Not supplied for this unit

🔧 Important

- When installing this unit in a vehicle without an ACC (accessory) position on the ignition switch, failure to connect the red cable to the terminal that detects operation of the ignition key may result in battery drain.

ACC position   No ACC position

- Use this unit with a 12-volt battery and negative grounding only. Failure to do so may result in a fire or malfunction.
- To prevent a short-circuit, overheating or malfunction, be sure to follow the directions below.
  – Disconnect the negative terminal of the battery before installation.
 – Secure the wiring with cable clamps or adhesive tape. Wrap adhesive

tape around wiring that comes into contact with metal parts to protect the wiring.

– Place all cables away from moving parts, such as the shift lever and seat rails.
– Place all cables away from hot places, such as near the heater outlet.
– Do not connect the yellow cable to the battery by passing it through the hole to the engine compartment.
– Cover any disconnected cable connectors with insulating tape.
– Do not shorten any cables.
– Never cut the insulation of the power cable of this unit in order to share the power with other devices. The current capacity of the cable is limited.
– Use a fuse of the rating prescribed.
– Never wire the negative speaker cable directly to ground.
– Never band together negative cables of multiple speakers.
• When this unit is on, control signals are sent through the blue/white cable. Connect this cable to the system remote control of an external power amp or the vehicle's auto-antenna relay control terminal (max. 300 mA 12 V DC). If the vehicle is equipped with a glass antenna, connect it to the antenna booster power supply terminal.
• Never connect the blue/white cable to the power terminal of an external power amp. Also, never connect it to

the power terminal of the auto antenna. Doing so may result in battery drain or a malfunction.
• The graphical symbol $\overline{}$ placed on the product means direct current.

This unit
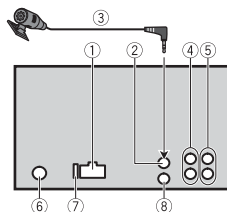
① Power cord input
② Microphone input
③ Microphone (3 m)
④ Rear output or subwoofer output
⑤ Front output
⑥ Antenna input
⑦ Fuse (10 A)
⑧ Wired remote input
Hard-wired remote control adapter can be connected (sold separately).

Power cord

Perform these connections when not connecting a rear speaker lead to a subwoofer.
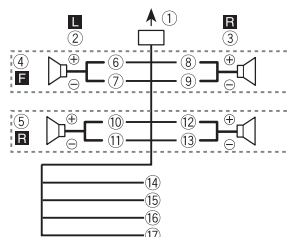
Perform these connections when using a subwoofer without the optional amplifier.
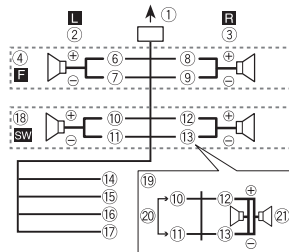
◐ Important
In the case of ⑲ above, two 4 Ω subwoofers wired in parallel will represent a 2 Ω load.

① To power cord input
② Left
③ Right
④ Front speaker

⑤ Rear speaker
⑥ White
⑦ White/black
⑧ Gray
⑨ Gray/black
⑩ Green
⑪ Green/black
⑫ Violet
⑬ Violet/black
⑭ Black (chassis ground)
Connect to a clean, paint-free metal location.
⑮ Yellow
Connect to the constant 12 V supply terminal.
⑯ Red
Connect to terminal controlled by the ignition switch (12 V DC).
⑰ Blue/white
Connect to the system control terminal of the power amp or auto-antenna relay control terminal (max. 300 mA 12 V DC).
⑱ Subwoofer (4 Ω)
⑲ When using a subwoofer of 2 Ω, be sure to connect the subwoofer to the violet and violet/black leads of this unit. Do not connect anything to the green and green/black leads.
⑳ Not used.
㉑ Subwoofer (4 Ω) × 2

NOTE
Change the initial menu of this unit. Refer to [SP-P/O MODE] (page 6). The subwoofer output of this unit is monaural.

Power amp (sold separately)

Perform these connections when using the optional amplifier.
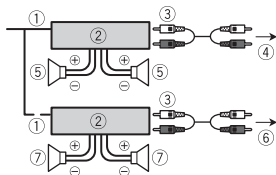
① System remote control
Connect to blue/white cable.
② Power amp (sold separately)
③ Connect with RCA cables (sold separately)
④ To front output
⑤ Front speaker
⑥ To rear output or subwoofer output
⑦ Rear speaker or subwoofer

Installation

↪ Important

- Check all connections and systems before final installation.
- Do not use unauthorized parts as this may cause malfunctions.
- Consult your dealer if installation requires drilling of holes or other modifications to the vehicle.
- Do not install this unit where:
  – it may interfere with operation of the vehicle.
  – it may cause injury to a passenger as a result of a sudden stop.

- Install this unit away from hot places such as near the heater outlet.
- Optimum performance is obtained when the unit is installed at an angle of less than 60°.
- When installing, to ensure proper heat dispersal when using this unit, make sure you leave ample space behind the rear panel and wrap any loose cables so they are not blocking the vents.

Leave ample space   5 cm

5 cm
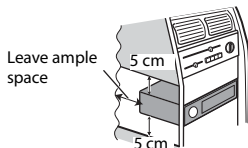
1 **Determine the appropriate position where the holes on the bracket and the side of the unit match.**
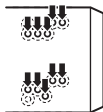
2 **Tighten the screws on each side.**
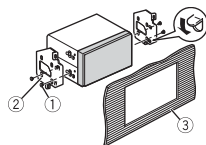
① Truss screw (5 mm × 9 mm)
② Mounting bracket
③ Dashboard or console

Installing the microphone

The microphone should be placed directly in front of the driver at a suitable distance to pick up their voice clearly.

⚠ CAUTION

It is extremely dangerous to allow the microphone lead to become wound around the steering column or shift lever. Be sure to install the microphone in such a way that it will not obstruct driving. It is recommended to use the clamps (sold separately) to arrange the lead.
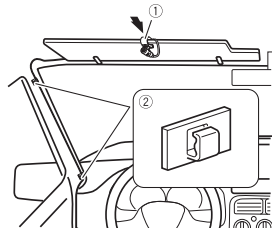
To install on the sun visor

1 **Fit the microphone lead into the groove.**
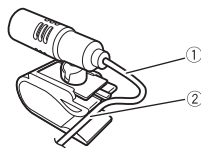
① Microphone lead
② Groove

2 **Install the microphone clip on the sun visor.**
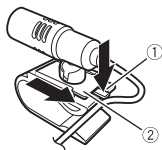Lowering the sun visor reduces the voice recognition rate.

① Microphone clip
② Clamps
Use separately sold clamps to secure the lead where necessary inside the vehicle.
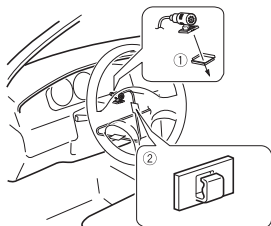
To install on the steering column

1 **Detach the microphone base from the microphone clip by sliding the**

En 21

microphone base while pressing the tab.

① Tab
② Microphone base

2 Install the microphone on the rear side of the steering column.

① Double-sided tape
② Clamps
Use separately sold clamps to secure the lead where necessary inside the vehicle.

NOTE
Install the microphone on the steering column, keeping it away from the steering wheel.

Adjusting the microphone angle

The microphone angle can be adjusted.

Additional Information

Troubleshooting

The display automatically returns to the normal display.
→ No operations have been made for about 30 seconds.
 – Perform an operation.

The repeat play range changes unexpectedly.
→ Depending on the repeat play range, the selected range may change when another folder or track is being selected or during fast forwarding/reversing.
 – Select the repeat play range again.

A subfolder is not played back.
→ Subfolders cannot be played when [FLD] (folder repeat) is selected.
 – Select another repeat play range.

The sound is intermittent.
→ You are using a device, such as a cellular phone, that may cause audible interference.
 – Move electrical devices that may be causing the interference away from the unit.

The sound from the Bluetooth audio source is not played back.
→ There is a call in progress on a Bluetooth-connected cellular phone.

 – The sound will be played back when the call is terminated.
→ A Bluetooth-connected cellular phone is currently being operated.
 – Stop using the cellular phone.
→ The connection between the unit and the cellular phone is not established correctly after a call made by a Bluetooth-connected cellular phone.
 – Make a Bluetooth connection between the unit and the cellular phone again.

Error messages

Common

AMP ERROR
→ This unit fails to operate or the speaker connection is incorrect.
→ The protective circuit is activated.
 – Check the speaker connection.
 – Turn the ignition switch OFF and back to ON again. If the message remains, contact your dealer or an authorized Pioneer Service Station for assistance.

NO XXXX (NO TITLE, for example)
→ There is no embedded text information.
 – Switch the display or play another track/file.

USB device

FORMAT READ
→ Sometimes there is a delay between the start of playback and when you start to hear any sound.
– Wait until the message disappears and you hear sound.

NO AUDIO
→ There are no songs.
– Transfer the audio files to the USB device and connect.
→ The connected USB device has security enabled.
– Follow the USB device instructions to disable the security.

SKIPPED
→ The connected USB device contains DRM protected files.
– The protected files are skipped.

PROTECT
→ All the files on the connected USB device are embedded with DRM.
– Replace the USB device.

N/A USB
→ The connected USB device is not supported by this unit.
– Disconnect your device and replace it with a compatible USB device.

HUB ERROR
→ The USB device connected via a USB hub is not supported by this unit.
– Connect the USB device directly to this unit using a USB cable.

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 device consumes more than maximum allowable current.
– Disconnect the USB device and do not use it. Turn the ignition switch OFF and back to ACC or ON. Connect only compliant USB devices.

ERROR-19
→ Communication failed.
– Perform one of the following operations, then return to the USB source.
  • Disconnect the USB device.
  • Change to a different source.

ERROR-23
→ USB device was not formatted properly.
– Format the USB device with FAT12, FAT16 or FAT32.

Bluetooth device

ERROR-10
→ The power failed for the Bluetooth module of the unit.
– Turn the ignition switch OFF and back to ACC or ON.

APP

CONNECT APP
→ Pioneer Smart Sync connection is not made.
– Make a connection with Pioneer Smart Sync (page 12).

Spotify

NOT FOUND
→ The Spotify application has not started running yet.
– Start up the Spotify application.

NO BT DEVICE GO TO BT MENU TO REGISTER
→ No Bluetooth device found.
– Connect the unit and the device via Bluetooth (page 8).

CONN. FAILED PRESS BAND KEY TO RETRY
→ Bluetooth connection failed.
– Press **BAND**/⮌ to make a connection again.

CHECK APP PRESS BAND KEY TO RETRY
→ Connection to the Spotify application failed.
– Press **BAND**/⮌ to make a connection again.

DISCONNECTED PRESS BAND KEY TO RETRY
→ Bluetooth connection lost.
– Press **BAND**/⮌ to make a connection again.

CHECK APP
→ An unknown error (including communication error) has occurred.
– Follow the instructions that appear on the screen.

Handling guidelines

USB storage device
• Connections via USB hubs are not supported.
• Firmly secure the USB storage device before driving. Do not let the USB storage device fall onto the floor, where it may become jammed under the brake or accelerator pedal.
• Depending on the USB storage device, the following problems may occur.
– Operations may vary.
– The storage device may not be recognized.
– Files may not be played back properly.
– The device may cause audible interference when you are listening to the radio.

Compressed audio compatibility

• Only the first 32 characters can be displayed as a file name (including the file extension) or a folder name.

- The unit may not work properly depending on the application used to encode WMA files.
- There may be a slight delay at the start of the playback of audio files embedded with image data, or audio files stored on a USB device with numerous folder hierarchies.

⚠ CAUTION
- Pioneer cannot guarantee compatibility with all USB mass storage devices, and assumes no responsibility for any loss of data on media players, smartphones, or other devices while using this product.
- Do not leave a USB device in any place that is subject to high temperatures.

WMA files

File extension	.wma
Bit rate	48 kbps to 320 kbps (CBR), 48 kbps to 384 kbps (VBR)
Sampling frequency	32 kHz, 44.1 kHz, 48 kHz
Windows Media™ Audio Professional, Lossless, Voice/DRM Stream/Stream with video	Not compatible

MP3 files

File extension	.mp3
Bit rate	8 kbps to 320 kbps (CBR), VBR
Sampling frequency	8 kHz to 48 kHz (32 kHz, 44.1 kHz, 48 kHz for emphasis)
Compatible ID3 tag version	1.0, 1.1, 2.2, 2.3, 2.4 (ID3 tag Version 2.x is given priority over Version 1.x.)
M3u playlist	Not compatible
MP3i (MP3 interactive), mp3 PRO	Not compatible

WAV files
- WAV file formats cannot be connected via MTP.

File extension	.wav
Quantization bits	8 and 16 (LPCM)
Sampling frequency	16 kHz to 48 kHz (LPCM)

FLAC files
- FLAC file formats cannot be connected via MTP.
- FLAC files may not be playable, depending on the encoder.

File extension	.flac, .fla
Sampling frequency	8/11.025/12/16/22.05/24/32/44.1/48/96 kHz
Quantization bit rate	8/16/24 bit
Channel mode	1/2 ch

USB device
- There may be a slight delay when starting playback of audio files on a USB storage device with numerous folder hierarchies.

Playable folder hierarchy	Up to eight tiers (A practical hierarchy is less than two tiers.)
Playable folders	Up to 1 500
Playable files	Up to 15 000
Playback of copyright-protected files	Not compatible
Partitioned USB device	Only the first partition can be played.

Sequence of audio files

The user cannot assign folder numbers and specify playback sequences with this unit. Sequence of audio file depends on the connected device. Note that the hidden files in a USB device cannot be played back.

Example of a hierarchy
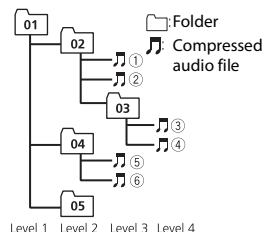
01 to 05: Folder number
① to ⑥: Playback sequence

Copyright and trademark

Bluetooth
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WMA
Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from Microsoft Licensing, Inc.

FLAC
Copyright © 2000-2009 Josh Coalson

Specifications

General

Rated power source: 14.4 V DC (allowable voltage range: 12.0 V to 14.4 V DC)
Grounding system: Negative type
Maximum current consumption: 10.0 A
Dimensions (W × H × D):
D
Chassis: 178 mm × 100 mm × 97 mm
Nose: 170 mm × 96 mm × 16 mm
Weight: 0.7 kg

Audio

Maximum power output:
• 50 W × 4 ch/4 Ω (for no subwoofer)
• 50 W × 2 ch/4 Ω + 70 W × 1 ch/2 Ω (for subwoofer)
Continuous power output:
22 W × 4 (50 Hz to 15 000 Hz, 5 % THD, 4 Ω load, both channels driven)
Load impedance: 4 Ω (4 Ω to 8 Ω (2 Ω for 1 ch) allowable)
Preout maximum output level: 2.0 V
Equalizer (13-Band Graphic Equalizer):
Frequency: 50 Hz/80 Hz/125 Hz/200 Hz/315 Hz/500 Hz/800 Hz/1.25 kHz/2 kHz/3.15 kHz/5 kHz/8 kHz/12.5 kHz
Gain: ±12 dB (2 dB step)
High pass filter:
Frequency: 25 Hz/31.5 Hz/40 Hz/50 Hz/63 Hz/80 Hz/100 Hz/125 Hz/160 Hz/200 Hz/250 Hz
Slope: –6 dB/oct, –12 dB/oct, –18 dB/oct, –24 dB/oct, OFF
Subwoofer/Low pass filter:
Frequency: 25 Hz/31.5 Hz/40 Hz/50 Hz/63 Hz/80 Hz/100 Hz/125 Hz/160 Hz/200 Hz/250 Hz
Slope: –6 dB/oct, –12 dB/oct, –18 dB/oct, –24 dB/oct, –30 dB/oct, –36 dB/oct, OFF
Gain: +10 dB to –24 dB (1 dB step)
Phase: Normal/Reverse
Speaker level:
+10 dB to –24 dB (1 dB step)
Time alignment:
0 cm to 350 cm (2.5 cm/Step)

USB

USB standard specification: USB 2.0 full speed
Maximum current supply: 1.5 A
USB Protocol:
MSC (Mass Storage Class)
MTP (Media Transfer Protocol)

AOA (Android Open Accessory) 2.0
File system: FAT12, FAT16, FAT32
MP3 decoding format: MPEG-1 & 2 Audio Layer 3
WMA decoding format: Ver. 7, 8, 9, 9.1, 9.2 (2 ch audio)
FLAC decoding format: v1.2.1 (Free Lossless Audio Codec)
WAV signal format: Linear PCM (Non-compressed)

FM tuner

Frequency range: 87.5 MHz to 108.0 MHz
Usable sensitivity: 11 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB)
Signal-to-noise ratio: 65 dB (IEC-A network)

AM tuner

Frequency range: 531 kHz to 1 602 kHz (9 kHz)
530 kHz to 1 640 kHz (10 kHz)
Usable sensitivity: 25 μV (S/N: 20 dB)
Signal-to-noise ratio: 60 dB (IEC-A network)

SW tuner

Frequency range:
2 300 kHz to 7 735 kHz (2 300 kHz to 2 495 kHz, 2 940 kHz to 4 215 kHz, 4 540 kHz to 5 175 kHz, 5 820 kHz to 6 455 kHz, 7 100 kHz to 7 735 kHz)
9 500 kHz to 21 975 kHz (9 500 kHz to 10 135 kHz, 11 580 kHz to 12 215 kHz, 13 570 kHz to 13 870 kHz, 15 100 kHz to 15 735 kHz, 17 500 kHz to 17 985 kHz, 18 015 kHz to 18 135 kHz, 21 340 kHz to 21 975 kHz)
Usable sensitivity: 28 μV (S/N: 20 dB)
Signal-to-noise ratio: 60 dB (IEC-A network)

Bluetooth

Version: Bluetooth 4.0 certified
Output power: +4 dBm Maximum (Power class 2)
BLE (Bluetooth Low Energy) Version: 4.0 certified
BLE (Bluetooth Low Energy) Output power: +3 dBm Maximum
Frequency band(s): 2 400 MHz to 2 483.5 MHz
Bluetooth profiles:
GAP (Generic Access Profile)
SDAP (Service Discovery Application Profile)
HFP (Hands Free Profile) 1.6
PBAP (Phone Book Access Profile)
A2DP (Advanced Audio Distribution Profile)
AVRCP (Audio/Video Remote Control Profile) 1.5
SPP (Serial Port Profile) 1.1

NOTE
Specifications and the design are subject to modifications without notice.

Visit our website

http://pioneer.jp/group/index-e.html

We offer the latest information about PIONEER CORPORATION on our website.

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