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DIGITAL MEDIA RECEIVER

Pioneer



English

Русский

MVH-X460UI

Owner's Manual

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 **WARNINGS** and **CAUTIONS** in this manual. *Please keep the manual in a safe and accessible place for future reference.*

Information for users on collection and disposal of old equipment and used batteries

(Symbol for equipment)



(Symbol examples for batteries)



These symbols on the products, packaging, and/or accompanying documents mean that **used electrical and electronic products and batteries should not be mixed with general household waste.**

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points in accordance with your national legislation.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

These symbols are only valid in the European Union.

For countries outside the European Union:

If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

About this unit

The tuner frequencies on this unit are allocated for use in Western Europe, Asia, the Middle East, Africa and Oceania. Use in other areas may result in poor reception. The RDS (radio data system) function only works in areas that broadcast RDS signals for FM stations.

Before you start

⚠ 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

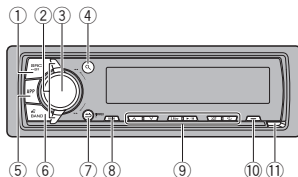
- Do not allow this unit to come into contact with liquids. Electrical shock could result. Also, damage to this unit, smoke, and overheating could result from contact with liquids.
- The Pioneer CarStereo-Pass is for use only in Germany.
- Always keep the volume low enough to hear outside sounds.
- Avoid exposure to moisture.

If you experience problems

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

Using this unit

Head unit



① **SRC/OFF**

② **LEVER**

③ **MULTI-CONTROL (M.C.)**

④ **Q (list)**

⑤ **APP**

⑥ **BAND/** (iPod control)

⑦ **(back)/DIMMER** (dimmer)

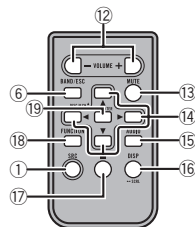
⑧ **MIX** (MIXTRAX)

⑨ **1/∧ to 6/**

⑩ **DISP**

⑪ Detach button

Remote control



VOLUME

⑫ Press to increase or decrease volume.

MUTE

⑬ Press to mute. Press again to unmute.

▲/▼/◀/▶

⑭ Press to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

AUDIO

⑮ Press to select an audio function.

DISP/SCRL

⑯ Press to select different displays. Press and hold to turn dimmer on or off.

▶/II

⑰ Press to pause or resume playback.

FUNCTION

⑱ Press to select functions.

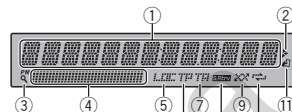
LIST/ENTER

Press to display the list depending on the source.

While in the operating menu, press to control functions.

Using this unit

Display indication



Main information section

- Tuner: band and frequency
- RDS: program service name, PTY information and other literal information
- USB storage device and iPod: elapsed playback time and text information

①



② Appears when a lower tier of folder or menu exists.

③ **Q (list)**

④ Sub information section

⑤ **LOC** (local seek tuning)

⑥ **TP** (traffic program identification)

⑦ **TA** (traffic announcements)

⑧ **S RTW** (sound retriever)

⑨ **XX** (random/shuffle)

⑩ **↺** (repeat)

⏏ (iPod control)

⑪ This unit's iPod function is operated from your iPod.

2 Turn M.C. to switch to YES.

- If you do not use the unit for 30 seconds, the set up menu will not be displayed.
- If you prefer not to set up at this time, turn **M.C.** to switch to **NO**.

3 Press M.C. to select.

4 Follow these steps to set the menu.

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

LANGUAGE (multi-language)

This unit can display the text information from a compressed audio file even for information embedded in English, Russian or Turkish.

- If the embedded language and the selected language setting are not the same, text information may not display properly.
- Some characters may not be displayed properly.

① Turn **M.C.** to select the desired setting.

PYC (Russian)—**TUR** (Turkish)—**ENG** (English)

② Press **M.C.** to confirm the selection.

CLOCK SET (setting the clock)

① Turn **M.C.** to adjust hour.

② Press **M.C.** to select minute.

③ Turn **M.C.** to adjust minute.

④ Press **M.C.** to confirm the selection.

FM STEP (FM tuning step)

Use **FM STEP** to set FM tuning step options (seek step settings).

① Turn **M.C.** to select the FM tuning step.

100 (100 kHz)—**50** (50 kHz)

② Press **M.C.** to confirm the selection.

QUIT appears.

- The manual tuning step is fixed at 50 kHz.

Set up menu

1 After installation of this unit, turn the ignition switch to **ON**.

SET UP appears.

Using this unit

5 To finish your settings, turn M.C. to select YES.

- If you prefer to change your setting again, turn **M.C.** to switch to **NO**.

6 Press M.C. to select.

Notes

- You can set up the menu options from the system menu and initial menu. For details about the settings, refer to *System menu* on page 9 and *Initial menu* on page 10.
- You can cancel set up menu by pressing **SRC/OFF**.

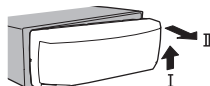
Basic operations

Important

- Handle the front panel with care when removing or attaching it.
- Avoid subjecting the front panel to excessive shock.
- Keep the front panel out of direct sunlight and high temperatures.
- To avoid damaging the device or vehicle interior, remove any cables and devices attached to the front panel before detaching it.

Removing the front panel

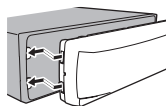
- Press the detach button to release the front panel.
- Push the front panel upward (I) and then pull it toward (II) you.



- Always store the detached front panel in a protective case or bag.

Re-attaching the front panel

- Slide the front panel to the left.



- Press the right side of the front panel until it is firmly seated. Forcing the front panel into place may result in damage to the front panel or head unit.

Turning the unit on

- Press **SRC/OFF** to turn the unit on.

Turning the unit off

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

Selecting a source

- Press **SRC/OFF** to cycle between:
RADIO—USB/iPod—APP (application)—AUX
 - USB MTP** displays while the MTP connection is in use.
 - When there is an iPod connected and a source other than **APP** is selected, you can switch to **APP** by pressing **APP**.

Adjusting the volume

- Turn **M.C.** to adjust the volume.

Using this unit

Note

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.

Use and care of the remote control

Using the remote control

- Point the remote control in the direction of the front panel to operate. When using for the first time, pull out the film protruding from the tray.

Replacing the battery

- Slide the tray out on the back of the remote control.
- Insert the battery with the plus (+) and minus (–) poles aligned properly.



WARNING

- Keep the battery out of the reach of children. Should the battery be swallowed, consult a doctor immediately.
- Batteries (battery pack or batteries installed) must not be exposed to excessive heat such as sunshine, fire or the like.

CAUTION

- Remove the battery if the remote control is not used for a month or longer.

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

Important

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

Frequently used menu operations

Returning to the previous display

Returning to the previous list (the folder one level higher)

- Press **DIMMER**.

Returning to the ordinary display

Canceling the main menu

- Press **BAND**.

Returning to the ordinary display from the list

- Press **BAND**.

Using this unit

Radio

Basic operations

<p>Selecting a band</p> <p>1 Press BAND/ until the desired band (FM1, FM2.FM3 for FM or MW/LW) is displayed.</p>
<p>Switching preset stations</p> <p>1 Turn LEVER.</p> <ul style="list-style-type: none"> Select PCH (preset channel) under SEEK to use this function.
<p>Manual tuning (step by step)</p> <p>1 Turn LEVER.</p> <ul style="list-style-type: none"> Select MAN (manual tuning) under SEEK to use this function.
<p>Seeking</p> <p>1 Turn and hold down LEVER.</p> <ul style="list-style-type: none"> While turning and holding down LEVER, you can skip stations. Seek tuning starts as soon as you release LEVER.

Notes

- For details about **SEEK**, refer to **SEEK (LEVER tuning setting)** on page 5.
- This unit's AF (alternative frequencies search) function can be turned on and off. AF should be off for normal tuning operation (refer to **AF (alternative frequencies search)** on page 5).

Storing and recalling stations for each band

Using preset tuning buttons

- To store:** Press and hold down one of the preset tuning buttons (1/△ to 6/▽) until the number stops flashing.
- To recall:** Press one of the preset tuning buttons (1/△ to 6/▽).

Switching the display

Selecting the desired text information

- 1 Press **DISP** to cycle between the following:
- FREQUENCY** (program service name or frequency)
 - BRDCST INFO** (program service name/PTY information)
 - CLOCK** (source name and clock)

Notes

- If the program service name cannot be acquired in **FREQUENCY**, the broadcast frequency is displayed instead. If the program service name is detected, the program service name will be displayed.
- Depending on the band, text information can be changed.
- Text information items that can be changed depend on the area.

Using PTY functions

You can tune in to a station using PTY (program type) information.

Searching for an RDS station by PTY information

- 1 Press **Q** (list).
- 2 Turn **M.C.** to select a program type:
NEWS/INFO—**POPULAR**—**CLASSICS**—**OTHERS**
- 3 Press **M.C.** to begin the search.
- The unit searches for a station broadcasting that type of program. When a station is found, its program service name is displayed.
- To cancel the search, press **M.C.** again.
 - 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.

Using this unit

PTY list

For more details about PTY list, visit the following site:
<http://www.pioneer.eu/eur/products/25/121/tech/CarAudio/PTY.html>

Function settings

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

2 Turn M.C. to change the menu option and press to select FUNCTION.

3 Turn M.C. to select the function.

Once selected, the following functions can be adjusted.

- If MW/LW band is selected, only **BSM**, **LOCAL** and **SEEK** are available.

BSM (best stations memory)

BSM (best stations memory) automatically stores the six strongest stations in the order of their signal strength.

- 1 Press **M.C.** to turn BSM on.

To cancel, press **M.C.** again.

REGIONAL (regional)

When AF is used, the regional function limits the selection of stations to those broadcasting regional programs.

- 1 Press **M.C.** to turn the regional function on or off.

LOCAL (local seek tuning)

Local seek tuning allows you to tune in to only those radio stations with sufficiently strong signals for good reception.

- 1 Press **M.C.** to select the desired setting.

FM: **OFF**—**LV1**—**LV2**—**LV3**—**LV4**

MW/LW: **OFF**—**LV1**—**LV2**

The highest level setting allows reception of only the strongest stations, while lower levels allow the reception of weaker stations.

TA (traffic announcement standby)

- 1 Press **M.C.** to turn traffic announcement standby on or off.

AF (alternative frequencies search)

- 1 Press **M.C.** to turn AF on or off.

NEWS (news program interruption)

- 1 Press **M.C.** to turn the NEWS function on or off.

SEEK (LEVER tuning setting)

You can assign a function to the **LEVER** on the unit.

Select **MAN** (manual tuning) to tune up or down manually or select **PCH** (preset channel) to switch between preset channels.

- 1 Press **M.C.** to select **MAN** or **PCH**.

USB storage device

MTP connection

MTP-compatible Android devices (running Android OS 4.0 or higher) can be connected by MTP connection using the USB source. To connect an Android device, use the cable that came with the device.

Notes

- This function is not compatible with MIXTRAX.
- This function is not compatible with WAV.

Using this unit

Basic operations

Playing songs on a USB storage device
1 Press DISP to cycle between the following: MP3/WMA/WAV
• TRACK INFO (track title/artist name/album title)
• FILE INFO (file name/folder name)
• ELAPSED TIME (track number and playback time)
• CLOCK (source name and clock)
• SPEANA (spectrum analyzer)
Stopping playback of files on a USB storage device
1 Disconnect the USB storage device.
Selecting a folder
1 Press 1/Δ or 2/∇ .
Selecting a track
1 Turn LEVER .
Fast forwarding or reversing
1 Turn and hold down LEVER to the right or left.
• When playing compressed audio, there is no sound during fast forward or reverse.
Returning to root folder
1 Press and hold BAND/Δ .
Switching between playback memory devices
You can switch between playback memory devices on USB storage devices with more than one Mass Storage Device-compatible memory device.
1 Press BAND/Δ .
• You can switch between up to 32 different memory devices.

Note

Disconnect USB storage devices from the unit when not in use.

Operations using the MIXTRAX button

Turning MIXTRAX on or off
You cannot use this function with USB MTP .
1 Press MIX to turn MIXTRAX on or off.
• For more details about MIXTRAX, refer to <i>About MIXTRAX</i> on page 10.
• When MIXTRAX is in use, the sound retriever function is disabled.

Switching the display

Selecting the desired text information
1 Press DISP to cycle between the following: MP3/WMA/WAV
• TRACK INFO (track title/artist name/album title)
• FILE INFO (file name/folder name)
• ELAPSED TIME (track number and playback time)
• CLOCK (source name and clock)
• SPEANA (spectrum analyzer)

Selecting and playing files/tracks from the name list

1 Press **Q** to switch to the file/track name list mode.

2 Use **M.C.** to select the desired file name (or folder name).

Selecting a file or folder
1 Turn M.C.
Playing
1 When a file or track is selected, press M.C.
Viewing a list of the files (or folders) in the selected folder
1 When a folder is selected, press M.C.
Playing a song in the selected folder
1 When a folder is selected, press and hold M.C.

Using this unit

Operations using special buttons

Selecting a repeat play range
1 Press 6/↔ to cycle between the following:
• ALL – Repeat all files
• ONE – Repeat the current file
• FLD – Repeat the current folder
Playing tracks in random order
1 Press 5/XX to turn random play on or off.
Tracks in a selected repeat range are played in random order.
• To change songs during random play, turn LEVER to the right to switch to the next track. Turn LEVER to the left to restart playback of the current track from the beginning of the song.
Pausing playback
1 Press 4/▶/II to pause or resume.
Enhancing compressed audio and restoring rich sound (sound retriever)
1 Press 3/S.Rtrv to cycle between:
1—2—OFF (off)
1 is effective for low compression rates, and 2 is effective for high compression rates.
• Key operation is disabled when MIXTRAX is on.

Function settings

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

2 Turn **M.C.** to change the menu option and press to select **FUNCTION**.

Once selected, the function below can be adjusted.

- S.RTRV** is not available when MIXTRAX is turned on.

S.RTRV (sound retriever)

Automatically enhances compressed audio and restores rich sound.

- 1 Press **M.C.** to select the desired setting.
- For details, refer to *Enhancing compressed audio and restoring rich sound (sound retriever)* on page 6.

iPod

Basic operations

Playing songs on an iPod
1 Connect an iPod to the USB cable.
Selecting a song (chapter)
1 Turn LEVER
Fast forwarding or reversing
1 Turn and hold down LEVER to the right or left.
Selecting an album
1 Press 1/Δ or 2/∇ .

Notes

- The iPod cannot be turned on or off when the control mode is set to **CONTROL AUDIO**.
- Disconnect headphones from the iPod before connecting it to this unit.
- The iPod will turn off about two minutes after the ignition is switched off.

Operations using the MIXTRAX button

Turning MIXTRAX on or off
1 Press MIX to turn MIXTRAX on or off.
• For more details about MIXTRAX, refer to <i>About MIXTRAX</i> on page 10.

Using this unit

Switching the display

Selecting the desired text information

- 1 Press **DISP** to cycle between the following:
 - **TRACK INFO** (track title/artist name/album title)
 - **ELAPSED TIME** (track number and play-back time)
 - **CLOCK** (source name and clock)
 - **SPEANA** (spectrum analyzer)

Browsing for a song

- 1 Press **Q** to switch to the top menu of list search.

- 2 Use **M.C.** to select a category/song.

Changing the name of the song or category

- 1 Turn **M.C.**
Playlists—artists—albums—songs—podcasts
—genres—composers—audiobooks

Playing

- 1 When a song is selected, press **M.C.**

Viewing a list of songs in the selected category

- 1 When a category is selected, press **M.C.**

Playing a song in the selected category

- 1 When a category is selected, press and hold **M.C.**

Searching the list by alphabet

- 1 When a list for the selected category is displayed, press **Q** to switch to alphabet search mode.
- 2 Turn **M.C.** to select a letter.
- 3 Press **M.C.** to display the alphabetical list.
- To cancel searching, press **⇒DIMMER**.

Notes

- You can play playlists created with the computer application (MusicSphere). The application will be available on our website.

- Playlists that you created with the computer application (MusicSphere) are displayed in abbreviated form.

Operations using special buttons

Selecting a repeat play range

- 1 Press **6/↺** to cycle between the following:
 - **ONE** – Repeat the current song
 - **ALL** – Repeat all songs in the selected list
 - When the control mode is set to **CONTROL iPod**, the repeat play range will be same as what is set for the connected iPod.

Selecting a random play range (shuffle)

- 1 Press **5/↻** to cycle between the following:
 - **SNG** – Play back songs in the selected list in random order.
 - **ALB** – Play back songs from a randomly selected album in order.
 - **OFF** – Not play back in random order.

Playing all songs in random order (shuffle all)

- 1 Press and hold **5/↻** to turn shuffle all on.
- To turn off shuffle all, select **OFF** in shuffle. For details, refer to *Selecting a random play range (shuffle)* on page 7.

Pausing playback

- 1 Press **4/⏸/II** to pause or resume.

Enhancing compressed audio and restoring rich sound (sound retriever)

- 1 Press **3/S.Rtrv** to cycle between:
1—2—OFF (off)
1 is effective for low compression rates, and **2** is effective for high compression rates.

Playing songs related to the currently playing song

You can play songs from the following lists.

- Album list of the currently playing artist
- Song list of the currently playing album
- Album list of the currently playing genre

Using this unit

- 1 Press and hold **Q** to switch to link play mode.

- 2 Turn **M.C.** to change the mode; press to select.

- **ARTIST** – Plays an album by the artist currently playing.
- **ALBUM** – Plays a song from the album currently being played.
- **GENRE** – Plays an album from the genre currently being played.

The selected song/album will be played after the currently playing song.

Notes

- The selected song/album may be canceled if you use functions other than link search (e.g. fast forward and reverse).
- Depending on the song selected to play, the end of the currently playing song and the beginning of the selected song/album may be cut off.

Using this unit's iPod function from your iPod

This unit's iPod function can be controlled by using the connected iPod.

CONTROL iPod is not compatible with the following iPod models.

- iPod nano 1st generation
- iPod with video

- Press **BAND/⏮** to switch the control mode.

- **CONTROL iPod** – This unit's iPod function can be operated from the connected iPod.
- **CONTROL AUDIO** – This unit's iPod function can be controlled by using this unit.

Notes

- Switching the control mode to **CONTROL iPod** pauses song playback. Use the iPod to resume playback.

- The following operations are still accessible from the unit even if the control mode is set to **CONTROL iPod**.
 - Pausing
 - Fast forward/reverse
 - Selecting a song (chapter)
- The volume can only be adjusted from this unit.

Function settings

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

- 2 Turn **M.C.** to change the menu option and press to select **FUNCTION**.

- 3 Turn **M.C.** to select the function.

Once selected, the following functions can be adjusted.

- **AUDIO BOOK** is not available when **CONTROL iPod** is selected in the control mode. For details, refer to *Using this unit's iPod function from your iPod* on page 7.

AUDIO BOOK (audiobook speed)

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select your favorite setting.
 - **FASTER** – Playback at a speed faster than normal
 - **NORMAL** – Playback at normal speed
 - **SLOWER** – Playback at a speed slower than normal

S.RTRV (sound retriever)

- 1 Press **M.C.** to select the desired setting. For details, refer to *Enhancing compressed audio and restoring rich sound (sound retriever)* on page 7.

Using this unit

Using connected device applications

You can use this unit to perform streaming playback of and control tracks in iPhone applications or just for streaming playback.

Important

Use of third party apps may involve or require the provision of personally identifiable information, whether through the creation of a user account or otherwise, and for certain applications, the provision of geolocation data. ALL THIRD PARTY APPS ARE THE SOLE RESPONSIBILITY OF THE PROVIDERS, INCLUDING WITHOUT LIMITATION COLLECTION AND SECURITY OF USER DATA AND PRIVACY PRACTICES. BY ACCESSING THIRD PARTY APPS, YOU AGREE TO REVIEW THE TERMS OF SERVICE AND PRIVACY POLICIES OF THE PROVIDERS. IF YOU DO NOT AGREE WITH THE TERMS OR POLICIES OF ANY PROVIDER OR DO NOT CONSENT TO THE USE OF GEOLOCATION DATA WHERE APPLICABLE, DO NOT USE THAT THIRD PARTY APP.

Information for compatibility of connected devices

The following is the detailed information regarding the terminals required to use the application for iPhone on this unit.

For iPhone users

- This function is compatible with iPhone and iPod touch.
- The device has iOS 5.0 or higher.

Notes

- Please check our website for a list of supported iPhone applications for this unit.

- Pioneer is not liable for any issues that may arise from incorrect or flawed app-based content.
- The content and functionality of the supported applications are the responsibility of the App providers.

Starting procedure for iPhone users

- 1 Connect an iPhone to USB cable.
- 2 Switch the source to APP.
- 3 Start up the application on the iPhone and initiate playback.

Basic operations

Selecting a track
[1] Turn LEVER .
Fast forwarding or reversing
[1] Turn and hold down LEVER to the right or left.
Pausing playback
[1] Press BAND / ↔ to pause or resume.

Switching the display

Selecting the desired text information
[1] Press DISP to cycle between the following:
<ul style="list-style-type: none"> TRACK INFO (track title/artist name/album title) APP NAME (application name) ELAPSED TIME (playback time) CLOCK (source name and clock) SPEANA (spectrum analyzer)

Function settings

- 1 Press **M.C.** to display the main menu.
- 2 Turn **M.C.** to change the menu option and press to select **FUNCTION**.

Using this unit

3 Turn M.C. to select the function.

Once selected, the following functions can be adjusted.

PAUSE (pause)

- 1 Press **M.C.** to pause or resume.

S.RTRV (sound retriever)

- 1 Press **M.C.** to select the desired setting.
1—2—OFF (off)
1 is effective for low compression rates, and 2 is effective for high compression rates.

Audio adjustments

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

- 2 Turn **M.C.** to change the menu option and press to select **AUDIO**.

3 Turn M.C. to select the audio function.

Once selected, the following audio functions can be adjusted.

- FADER** is not available when **SUB.W/SUB.W** is selected in **SP-P/O MODE**. For details, refer to **SP-P/O MODE** (rear output and preout setting) on page 11.
- SUB.W** and **SUB.W CTRL** are not available when **REAR/REAR** is selected in **SP-P/O MODE**. For details, refer to **SP-P/O MODE** (rear output and preout setting) on page 11.
- SUB.W CTRL** is not available when **SUB.W** is selected in **OFF**. For details, refer to **SUB.W** (subwoofer on/off setting) on page 8.
- SLA** is not available when FM is selected as the source.

FADER (fader adjustment)

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to adjust the front/rear speaker balance.

BALANCE (balance adjustment)

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to adjust the left/right speaker balance.

EQ SETTING (equalizer recall)

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select the equalizer.
POWERFUL—NATURAL—VOCAL—CUSTOM1—CUSTOM2—FLAT—SUPER BASS
The equalizer band and equalizer level can be customized when **CUSTOM1** or **CUSTOM2** is selected.

If selecting **CUSTOM1** or **CUSTOM2**, complete the procedures outlined below. If selecting other options, press **M.C.** to return to the previous display.

- CUSTOM1** can be set separately for each source. However, **USB**, **iPod** and **APP** are all set to the same setting automatically.
- CUSTOM2** is a shared setting used in common for all sources.

- 3 Press **M.C.** to display the setting mode.
- 4 Press **M.C.** to cycle between the following: Equalizer band—Equalizer level
- 5 Turn **M.C.** to select the desired setting.
Equalizer band: **80HZ—250HZ—800HZ—2.5KHZ—8KHZ**
Equalizer level: **+6 to -6**

LOUDNESS (loudness)

Loudness compensates for deficiencies in the low-frequency and high-frequency ranges at low volume.

- 1 Press **M.C.** to select the desired setting.
OFF (off)—**LOW** (low)—**MID** (mid)—**HI** (high)

SUB.W (subwoofer on/off setting)

Using this unit

This unit is equipped with a subwoofer output which can be turned on or off.

- 1 Press **M.C.** to select the desired setting.
NOR (normal phase)—**REV** (reverse phase)—**OFF** (subwoofer off)

SUB.W CTRL (subwoofer adjustment)

Only frequencies lower than those in the selected range are outputted from the subwoofer.

- 1 Press **M.C.** to display the setting mode.
- 2 Press **M.C.** to cycle between the following:
Cut-off frequency—Output level—Slope level
Rates that can be adjusted will flash.
- 3 Turn **M.C.** to select the desired setting.
Cut-off frequency: **50HZ—63HZ—80HZ—100HZ—125HZ—160HZ—200HZ**
Output level: **-24** to **+6**
Slope level: **-12—-24**

BASS BOOST (bass boost)

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select a desired level.
0 to **+6** is displayed as the level is increased or decreased.

HPF SETTING (high pass filter adjustment)

Use this function when wanting to listen only to high-frequency sounds. Only frequencies higher than the high-pass filter (HPF) cutoff are output from the speakers.

- 1 Press **M.C.** to display the setting mode.
- 2 Press **M.C.** to cycle between the following:
Cut-off frequency—Slope level
- 3 Turn **M.C.** to select the desired setting.
Cut-off frequency: **OFF—50HZ—63HZ—80HZ—100HZ—125HZ—160HZ—200HZ**
Slope level: **-12—-24**

SLA (source level adjustment)

This function prevents the volume from changing too dramatically when the source switches.

- Settings are based on the FM volume level, which remains unchanged.
- The MW/LW volume level can also be adjusted with this function.
- **USB**, **iPod** and **APP** are all set to the same setting automatically.

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to adjust the source volume.
Adjustment range: **+4** to **-4**

System menu

Important

PW SAVE (power saving) is canceled if the vehicle battery is disconnected and will need to be turned back on once the battery is reconnected. When **PW SAVE** (power saving) is off, depending on connection methods, the unit may continue to draw power from the battery if your vehicle's ignition doesn't have an ACC (accessory) position.

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

2 Turn **M.C.** to change the menu option and press to select **SYSTEM**.

3 Turn **M.C.** to select the system menu function.

Once selected, the following system menu functions can be adjusted.

LANGUAGE (multi-language)

- 1 Press **M.C.** to select the desired setting.
PYC (Russian)—**TUR** (Turkish)—**ENG** (English)

CLOCK SET (setting the clock)

Using this unit

- 1 Press **M.C.** to display the setting mode.
- 2 Press **M.C.** to select the segment of the clock display you wish to set.
Hour—Minute
- 3 Turn **M.C.** to adjust the clock.

12H/24H (time notation)

- 1 Press **M.C.** to select the desired setting.
12H (12-hour clock)—**24H** (24-hour clock)

INFO DISPLAY (sub information)

The type of text information displayed in the sub information section can be toggled.

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select the desired setting.
SPEANA—LEVEL METER—SOURCE—CLOCK—OFF
 - The signal bar indicator displays for **SPEANA** or **LEVEL METER** when the source is set to **RADIO**.

AUTO PI (auto PI seek)

The unit can automatically search for a different station with the same programming, even during preset recall.

- 1 Press **M.C.** to turn Auto PI seek on or off.

AUX (auxiliary input)

Activate this setting when using an auxiliary device connected to this unit.

- 1 Press **M.C.** to turn **AUX** on or off.

DIMMER (dimmer)

- 1 Press **M.C.** to turn the dimmer on or off.
 - You can also change the dimmer setting by pressing and holding **↔**/DIMMER.

BRIGHTNESS (brightness adjustment)

You can use this setting to adjust the display brightness.

The range of settings available for **BRIGHTNESS** will vary depending on whether **DIMMER** is on or off. For details, refer to **DIMMER** (dimmer) on page 9.

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select the desired setting.
DIMMER on: **1** to **4**
DIMMER off: **1** to **5**

PW SAVE (power saving)

Switching this function on enables you to reduce the consumption of battery power.

- Turning on the source is the only operation allowed when this function is on.

- 1 Press **M.C.** to turn the power save on or off.

Selecting the illumination color

Illumination function menu

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

2 Turn **M.C.** to display **ILLUMI** and press to select.

3 Turn **M.C.** to select the illumination function.

Once selected, the following audio functions can be adjusted.

KEY COLOR (key section color setting)

You can select desired colors for the keys of this unit.

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select the illumination color.
 - Preset colors (ranging from **WHITE** to **BLUE**)
 - **SCAN** (cycle through a variety of colors automatically)
 - **CUSTOM** (customized illumination color)

Using this unit

DISP COLOR (display section color setting)

You can select the desired colors for the display of this unit.

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select the illumination color.
 - Preset colors (ranging from **WHITE** to **BLUE**)
 - **SCAN** (cycle through a variety of colors automatically)
 - **CUSTOM** (customized illumination color)

BOTH COLOR (key and display color setting)

You can select the desired colors for the keys and display of this unit.

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select the illumination color.
 - Preset colors (ranging from **WHITE** to **BLUE**)
 - **SCAN** (cycle through a variety of colors automatically)

ILLUMI FX (illumination effect mode)

When this mode is enabled, an illumination effect with lights that slowly fade in and out in a set pattern will appear on the display and keys to signify changes.

- 1 Press **M.C.** to turn **ILLUMI FX** on or off.
 - The illumination effect will flash momentarily when the ignition is turned ON/OFF, regardless of whether the **ILLUMI FX** setting is on or off.

Notes

- When **CUSTOM** is selected, the customized color saved is selected.
- **CUSTOM** can be set separately from the **DIMMER** on/off setting.

Customizing the illumination color

You can create custom illumination colors for both **KEY COLOR** and **DISP COLOR**.

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

- 2 Turn **M.C.** to display **ILLUMI** and press to select.

- 3 Turn **M.C.** to display **KEY COLOR** or **DISP COLOR**. Press to select.

- 4 Press **M.C.** and hold until the customizing illumination color setting appears in the display.

- 5 Press **M.C.** to select the primary color.
R (red)—**G** (green)—**B** (blue)

- 6 Turn **M.C.** to adjust the brightness level.

Adjustment range: **0** to **60**

- You cannot select a level below **20** for all three of **R** (red), **G** (green), and **B** (blue) at the same time.
- You can also perform the same operation on other colors.

Note

You cannot create a custom illumination color while **SCAN** is selected.

About MIXTRAX

MIXTRAX technology is used to insert a variety of sound effects in between songs, allowing you to experience your music as a nonstop mix complete with visual effects.

Notes

- Depending on the file/song, sound effects may not be available.
- Turn MIXTRAX off if the visual effects it produces have adverse effects on driving. Refer to *Operations using the MIXTRAX button* on page 6.

MIXTRAX menu

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

- 2 Turn **M.C.** to change the menu option and press to select MIXTRAX.

Using this unit

- 3 Turn **M.C.** to select the MIXTRAX function.

Once selected, the following MIXTRAX functions can be adjusted. The function is enabled when MIXTRAX is on.

SHORT PLAYBCK (short playback mode)

You can select the length of the playback time.

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select the desired setting.
1.0 MIN (1.0 minute)—**1.5 MIN** (1.5 minutes)—
2.0 MIN (2.0 minutes)—**2.5 MIN** (2.5 minutes)—
3.0 MIN (3.0 minutes)—**OFF** (off)

FLASH AREA (flash area)

You can select areas for flashing colors.

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select the desired setting.
KEY/DISPLAY (key and display)—**KEY** (key)—
OFF (off)
 - When **OFF** is selected, the color set under **ILLUMI** is used as the display color.

FLASH PATTERN (flash pattern)

The flashing color and MIXTRAX special effects display change with changes in the sound and bass levels.

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select the desired setting.
 - **SOUND LEVEL 1** to **SOUND LEVEL 6** – The flash pattern changes according to the sound level. Select a desired mode.
 - **LOW PASS 1** to **LOW PASS 6** – The flash pattern changes according to the bass level. Select a desired mode.
 - **RANDOM 1** – The flash pattern changes randomly according to the sound level mode and low pass mode.
 - **RANDOM 2** – The flash pattern changes randomly according to the sound level mode.
 - **RANDOM 3** – The flash pattern changes randomly according to the low pass mode.

DISPLAY FX (display effect)

The MIXTRAX special effects display can be turned on or off.

- 1 Press **M.C.** to select the desired setting.
ON (MIXTRAX special effects display)—**OFF** (normal display)

CUT IN FX (manual cut-in effect)

You can turn on or off the MIXTRAX sound effects while manually changing tracks.

- 1 Press **M.C.** to select the desired setting.
ON (on)—**OFF** (off)

Initial menu

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

- 2 Press and hold **SRC/OFF** until the main menu appears in the display.

- 3 Turn **M.C.** to change the menu option and press to select **INITIAL**.

- 4 Turn **M.C.** to select the initial menu function.

Once selected, the following initial menu functions can be adjusted.

FM STEP (FM tuning step)

- 1 Press **M.C.** to select the FM tuning step.
100 (100 kHz)—**50** (50 kHz)

Using this unit

SP-P/O MODE (rear output and preout setting)

The rear speaker leads output and the RCA output of this unit can be used to connect a full-range speaker or subwoofer. Select a suitable option for your connection.

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select the desired setting.
 - **REAR/SUB.W** – Select when there is a full-range speaker connected to the rear speaker leads output and there is a subwoofer connected to the RCA output.
 - **SUB.W/SUB.W** – Select when there is a subwoofer connected directly to the rear speaker leads output without any auxiliary amp and there is a subwoofer connected to the RCA output.
 - **REAR/REAR** – Select when there is a full-range speaker connected to the rear speaker leads output and the RCA output is not used, you may select either **REAR/SUB.W** or **REAR/REAR**.

System menu

- 1 Press and hold **SRC/OFF** until the unit turns off.
- 2 Press and hold **SRC/OFF** until the main menu appears in the display.
- 3 Turn **M.C.** to change the menu option and press to select **SYSTEM**.
- 4 Turn **M.C.** to select the system menu function.

For details, refer to *System menu* on page 9.

Using an AUX source

- 1 Use the **AUX** cable to connect an auxiliary device to this unit.

- 2 Press **SRC/OFF** to select **AUX** as the source.

Note

AUX cannot be selected unless the auxiliary setting is turned on. For more details, refer to **AUX** (auxiliary input) on page 9.

Switching the display

Selecting the desired text information

- 1 Press **DISP** to cycle between the following:
 - Source name
 - Source name and clock

If an unwanted display appears

Turn off the unwanted display using the procedures listed below.

- 1 Press **M.C.** to display the main menu.
- 2 Turn **M.C.** to change the menu option and press to select **SYSTEM**.
- 3 Turn **M.C.** to display **DEMO OFF** and press to select.
- 4 Turn **M.C.** to switch to **YES**.
- 5 Press **M.C.** to select.

Installation

Connections

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 of this unit in conditions other than the following could result in fire or malfunction.
 - Vehicles with a 12-volt battery and negative grounding.
 - Speakers with 50 W (output value) and 4Ω to 8Ω (impedance value).
- 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 black cable is ground. Ground cables for this unit and other equipment (especially, high-current products such as power amps) must be wired separately. If they are not, an accidental detachment may result in a fire or malfunction.

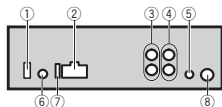
This unit

CAUTION

Use a USB cable when connecting a USB storage device. Connecting a USB storage device directly may be dangerous because it may stick out.

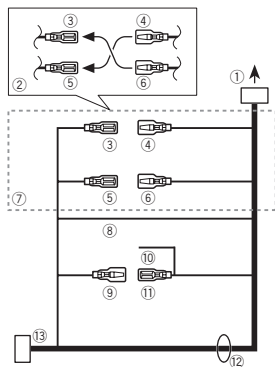
- To use the USB port to connect a device, prepare and use a USB cable sold separately.
- To use the **AUX** input jack to connect a device, prepare and use the **AUX** cable sold separately.

Installation



- ① USB port
- ② Power cord input
- ③ Rear output or subwoofer output
- ④ Front output
- ⑤ AUX input jack (3.5 mm stereo jack)
- ⑥ Wired remote input
Hard-wired remote control adapter can be connected (sold separately).
- ⑦ Fuse (10 A)
- ⑧ Antenna input

Power cord



- ① To Power cord input

- ② Depending on the kind of vehicle, the function of ③ and ⑤ may be different. In this case, be sure to connect ④ to ⑤ and ⑥ to ③.
- ③ Yellow
Back-up (or accessory)
- ④ Yellow
Accessory (or back-up)
- ⑤ Red
Connect to the constant 12 V supply terminal.
- ⑥ Red
Connect to terminal controlled by ignition switch (12 V DC).
- ⑦ Connect leads of the same color to each other.
- ⑧ Black (chassis ground)
- ⑨ Blue/white

The pin position of the ISO connector will differ depending on the type of vehicle. Connect ⑨ and ⑪ when Pin 5 is an antenna control type. In another type of vehicle, never connect ⑨ and ⑪.

- ⑩ Blue/white
Connect to system control terminal of the power amp (max. 300 mA 12 V DC).
- ⑪ Blue/white
Connect to auto-antenna relay control terminal (max. 300 mA 12 V DC).
- ⑫ Speaker leads
White: Front left ⊕
White/black: Front left ⊖
Gray: Front right ⊕
Gray/black: Front right ⊖
Green: Rear left ⊕ or subwoofer ⊕
Green/black: Rear left ⊖ or subwoofer ⊖
Violet: Rear right ⊕ or subwoofer ⊕
Violet/black: Rear right ⊖ or subwoofer ⊖
- ⑬ ISO connector

In some vehicles, the ISO connector may be divided into two. In this case, be sure to connect to both connectors.

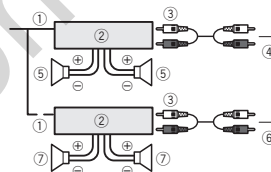
Installation

Notes

- Change the initial menu of this unit. Refer to **SP-P/O MODE** (rear output and preout setting) on page 11.
The subwoofer output of this unit is monaural.
- When using a subwoofer of 70 W (2Ω), 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.

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

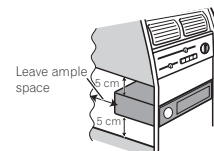
Important

- 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.
- The semiconductor laser will be damaged if it overheats. 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.



DIN front/rear mount

This unit can be properly installed using either front-mount or rear-mount installation. Use commercially available parts when installing.

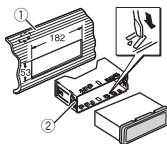
Installation

DIN Front-mount

1 Insert the mounting sleeve into the dashboard.

For installation in shallow spaces, use the supplied mounting sleeve. If there is enough space, use the mounting sleeve that came with the vehicle.

2 Secure the mounting sleeve by using a screwdriver to bend the metal tabs (90°) into place.

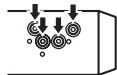


- ① Dashboard
- ② Mounting sleeve

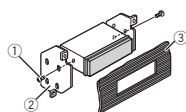
■ Make sure that the unit is installed securely in place. An unstable installation may cause skipping or other malfunctions.

DIN Rear-mount

1 Line up the holes on the mounting bracket with the holes on the sides of the unit to attach the bracket.



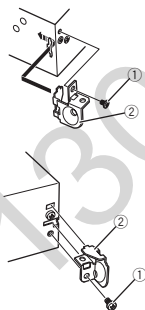
2 Screw in one screw on each side to hold the unit in place.



- ① Tapping screw (5 mm × 8 mm)
- ② Mounting bracket
- ③ Dashboard or console

Using the included bracket

You can also use the included bracket to mount the unit. Check to make sure that the included bracket matches your particular model of vehicle and then attach it to the unit as shown below.

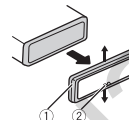


- ① Screw
- ② Bracket

Installation

Removing the unit

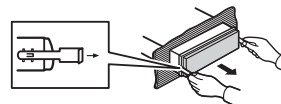
1 Remove the trim ring.



- ① Trim ring
- ② Notched tab
- Releasing the front panel allows easier access to the trim ring.
- When reattaching the trim ring, point the side with the notched tab down.

2 Insert the supplied extraction keys into both sides of the unit until they click into place.

3 Pull the unit out of the dashboard.



Removing and re-attaching the front panel

You can remove the front panel to protect your unit from theft.

For details, refer to *Removing the front panel* and *Re-attaching the front panel* on page 4.

Additional information

Troubleshooting

Symptoms are written in bold and causes in regular, non-indented text. Regular, indented text is used to indicate actions to be taken.

The display automatically returns to the ordinary display.

You did not perform any operation within about 30 seconds.

Perform operation again.

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.

NO XXXX appears when a display is changed (NO TITLE, for example).

There is no embedded text information.

Switch the display or play another track/file.

The unit is malfunctioning. There is interference.

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.

Error messages

When you contact your dealer or your nearest Pioneer Service Center, be sure to note the error message.

Error messages are written in bold and causes in regular, non-indented text. Regular, indented text is used to indicate actions to be taken.

Common

AMP ERROR

This unit fails to operate or the speaker connection is incorrect; the protective circuit is activated.

Check the speaker connection. If the message fails to disappear even after the engine is switched off/on, contact your dealer or an authorized Pioneer Service Station for assistance.

USB storage device/iPod

FORMAT READ

Sometimes there is a delay between the start of play-back 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 storage device and connect.

The connected USB storage device has security enabled.

Follow the USB storage device instructions to disable the security.

SKIPPED

The connected USB storage device contains DRM protected files.

The protected files are skipped.

PROTECT

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

Replace the USB storage device.

Additional information

N/A USB

The connected USB device is not supported by this unit.

- Connect a USB Mass Storage Class compliant device.
- Disconnect your device and replace it with a compatible USB storage device.

CHECK USB

The USB connector or USB cable has short-circuited.

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

CHECK USB

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

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

CHECK USB

The iPod operates correctly but does not charge.

Make sure the connection cable for the iPod has not shorted out (e.g., not caught in metal objects). After checking, turn the ignition switch OFF and back ON, or disconnect the iPod and reconnect.

ERROR-19

Communication failed.

Perform one of the following operations.
–Turn the ignition switch OFF and back ON.
–Disconnect the USB storage device.
–Change to a different source.
Then, return to the USB source.

iPod failure.

Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.

ERROR-23

USB storage device was not formatted with FAT12, FAT16 or FAT32.

USB storage device should be formatted with FAT12, FAT16 or FAT32.

ERROR-16

The iPod firmware version is old.

Update the iPod version.

iPod failure.

Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.

STOP

There are no songs in the current list.

Select a list that contains songs.

NOT FOUND

No related songs.

Transfer songs to the iPod.

Application

START UP APP

The application has not started running yet.

Follow the instructions that appear on the screen.

Handling guidelines

USB storage device

Connections via USB hub are not supported.

Do not connect anything other than a USB storage device.

Additional information

Firmly secure the USB storage device when driving. Do not let the USB storage device fall onto the floor, where it may become jammed under the brake or accelerator 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.

iPod

Do not leave the iPod in places with high temperatures.

Firmly secure the iPod when driving. Do not let the iPod fall onto the floor, where it may become jammed under the brake or accelerator pedal.

About iPod settings

- When an iPod is connected, this unit changes the EQ (equalizer) setting of the iPod to off in order to optimize the acoustics. When you disconnect the iPod, the EQ returns to the original setting.
- You cannot set Repeat to off on the iPod when using this unit. Repeat is automatically changed to All when the iPod is connected to this unit.

Incompatible text saved on the iPod will not be displayed by the unit.

Compressed audio compatibility (USB)

WMA

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

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

File extension: .wav

Quantization bits: 8 and 16 (LPCM), 4 (MS ADPCM)

Sampling frequency: 16 kHz to 48 kHz (LPCM), 22.05 kHz and 44.1 kHz (MS ADPCM)

- You cannot use this function with **USB MTP**.

Additional information

Supplemental information

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

Russian text to be displayed on this unit should be encoded in one of the following character sets:

- Unicode (UTF-8, UTF-16)
- A character set other than Unicode that is used in a Windows environment and is set to Russian in the multi-language setting

This unit may not work properly depending on the application used to encode WMA files.

There may be a slight delay at the start of playback of audio files embedded with image data or audio files stored on a USB storage device that has numerous folder hierarchies.

USB storage device

Playable folder hierarchy: up to eight tiers (A practical hierarchy is less than two tiers.)

Playable folders: up to 500

Playable files: up to 15 000

Playback of copyright-protected files: Not compatible

Partitioned USB storage device: Only the first partition can be played.

There may be a slight delay when starting playback of audio files on a USB storage 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, smart phones, or other devices while using this product.
- Do not leave a USB storage device in any place that is subject to high temperatures.

iPod compatibility

This unit supports only the following iPod models.

Made for

- iPod touch (5th generation)
- iPod touch (4th generation)
- iPod touch (3rd generation)
- iPod touch (2nd generation)
- iPod touch (1st generation)
- iPod classic
- iPod with video
- iPod nano (7th generation)
- iPod nano (6th generation)
- iPod nano (5th generation)
- iPod nano (4th generation)
- iPod nano (3rd generation)
- iPod nano (2nd generation)
- iPod nano (1st generation)
- iPhone 5
- iPhone 4S
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone

Depending on the generation or version of the iPod, some functions may not be available.

Operations may vary depending on the software version of iPod.

Users of iPod with the Lightning Connector should use the Lightning to USB Cable (supplied with iPod).

Additional information

Users of iPod with the Dock Connector should use CD-IU51. For details, consult your dealer.

About the file/format compatibility, refer to the iPod manuals.

Audiobook, Podcast: Compatible

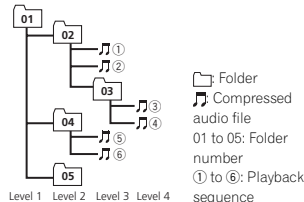
CAUTION

Pioneer accepts no responsibility for data lost on the iPod, even if that data is lost while this unit is used.

Sequence of audio files

The user cannot assign folder numbers and specify playback sequences with this unit.

Example of a hierarchy



USB storage device

Playback sequence is the same as recorded sequence in the USB storage device.

To specify the playback sequence, the following method is recommended.

- ① Create a file name that includes numbers that specify the playback sequence (e.g., 001xxx.mp3 and 099yyy.mp3).
- ② Put those files into a folder.
- ③ Save the folder containing files on the USB storage device.

However, depending on the system environment, you may not be able to specify the playback sequence.

For USB portable audio players, the sequence is different and depends on the player.

Russian character chart

D: C	D: C	D: C	D: C	D: C
А: А	Б: Б	В: В	Г: Г	Д: Д
Е: Е, Ё	Ж: Ж	З: З	И: И, Ы	К: К
Л: Л	М: М	Н: Н	О: О	П: П
Р: Р	С: С	Т: Т	У: У	Ф: Ф
Х: Х	Ц: Ц	Ч: Ч	Ш: Ш, Щ	Ъ: Ъ
Ы: Ы	Ь: Ь	Э: Э	Ю: Ю	Я: Я

D: Display C: Character

Copyright and trademark

MP3

Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e. revenue-generating) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent license for such use is required. For details, please visit <http://www.mp3licensing.com>.

WMA

Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

Additional information

This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from Microsoft Licensing, Inc.

iPod & iPhone

iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

Lightning is a trademark of Apple Inc.

"Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

Android™

Android is a trademark of Google Inc.

MIXTRAX

MIXTRAX is a trademark of the PIONEER CORPORATION.

Additional information

Specifications

General

Power source	14.4 V DC (10.8 V to 15.1 V allowable)
Grounding system	Negative type
Maximum current consumption	10.0 A
Dimensions (W × H × D):	
DIN	
Chassis	178 mm × 50 mm × 97 mm
Nose	188 mm × 58 mm × 15 mm
D	
Chassis	178 mm × 50 mm × 97 mm
Nose	170 mm × 46 mm × 15 mm
Weight	0.5 kg

Audio

Maximum power output ...	50 W × 4
	70 W × 1/2 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 allowable)
Preout maximum output level	2.0 V
Loudness contour	+10 dB (100 Hz), +6.5 dB (10 kHz) (volume: -30 dB)
Equalizer (5-Band Graphic Equalizer):	
Frequency	80 Hz/250 Hz/800 Hz/2.5 kHz/8 kHz
Equalization range	±12 dB (2 dB step)
Subwoofer (mono):	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/125 Hz/160 Hz/200 Hz
Slope	-12 dB/oct, -24 dB/oct
Gain	+6 dB to -24 dB
Phase	Normal/Reverse

USB

USB standard specification	USB 2.0 full speed
Maximum current supply	1 A
USB Class	MSC (Mass Storage Class)
File system	FAT12, FAT16, FAT32
MP3 decoding format	MPEG-1 & 2 Audio Layer 3

WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio) (Windows Media Player)
WAV signal format	Linear PCM & MS ADPCM (Non-compressed)

FM tuner

Frequency range	87.5 MHz to 108.0 MHz
Usable sensitivity	9 dBf (0.8 μ V/75 Ω mono, S/N: 30 dB)
Signal-to-noise ratio	72 dB (IEC-A network)

MW tuner

Frequency range	531 kHz to 1 602 kHz
Usable sensitivity	25 μ V (S/N: 20 dB)
Signal-to-noise ratio	62 dB (IEC-A network)

LW tuner

Frequency range	153 kHz to 281 kHz
Usable sensitivity	28 μ V (S/N: 20 dB)
Signal-to-noise ratio	62 dB (IEC-A network)

Note

Specifications and the design are subject to modifications without notice.