

Bluetooth telephone

- 2 Touch the tone key to turn the ring tone on or off.

Using the preset dial lists

You can easily store up to six phone numbers as presets.

- 1 Touch the preset dial key to display the preset screen.
- 2 Touch one of the phone numbers to select.
 - If you want to delete a preset phone number, touch and hold the phone number you wish to delete.
- 3 Touch the off-hook key to make the call.
- 4 Touch the on-hook key to end the call.

Making a call by entering phone number



- 1 Touch the key pad key to start entering the phone number.
- 2 Touch the number icons to input the numbers.
 - Up to 32 digits can be entered.
- 3 Touch the off-hook key to make the call.
- 4 Touch the on-hook key to end the call.

Note

Entering phone number mode cannot be operated unless a Bluetooth telephone is connected to this unit.

Setting the private mode

During a conversation, you can switch to private mode (talk directly on your cellular phone).

- Touch the private mode key to turn private mode on or off.

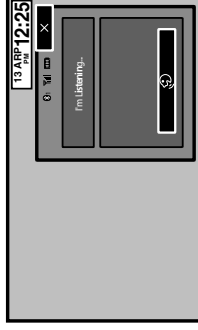
Voice control

If your cellular phone is equipped with the voice control feature, you can use voice commands to make calls, for example.

- Operation varies depending on the type of cellular phone. Refer to the instruction manual that came with your cellular phone for detailed instructions.
- When an iPhone running iOS 6.1 or later is used.
Siri Eyes Free Mode is available with this product.

1 Touch the voice control key.

The display switches to the voice control screen. You can also switch to the voice control screen by pressing and holding down the home button while the source is on.



Bluetooth telephone

2 Start voice control.

	Indicates that continuous calls can be made uninterrupted.
	Indicates that the display is closed.

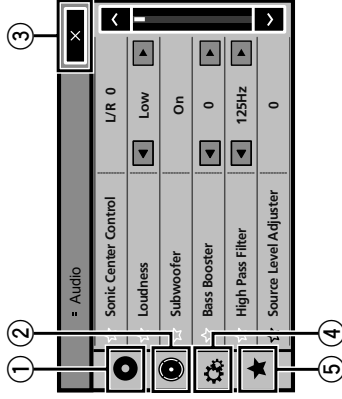
Notes

- In order for your voice commands to be recognized and interpreted correctly, ensure that conditions are suitable for recognition.
- Please note that wind blowing through the vehicle windows and noise coming from outside the vehicle can interfere with voice command operation.
- For optimum pick-up, the microphone should be placed directly in front of the driver at a suitable distance.
- Speaking too soon after the start of the command may cause voice recognition to fail.
- Speak slowly, deliberately, and clearly.

Settings

Menu operations

Touch panel keys



① Video setup key

Refer to *Setting up the video player* on page 37.

② Audio function key

Refer to *Audio adjustments* on page 35.

③ Close key

Returning to the current source display.

④ System key

Refer to *System settings* on page 40.

⑤ Favorite key

You can choose menus within each menu (Audio function menu, etc.) and register them to this favorite menu.
Refer to *Favorite menu* on page 45.

Notes

- You can display the **Video Setup** menu when a **Disc** or **USB** source is selected.
- If you start the **Video Setup** menu, playback is stopped.

Audio adjustments

Using fader/balance adjustment

Fader/Balance displays when Rear Speaker is set to **Full** on the System Menu.
You can change the fader/balance setting to provide an ideal listening environment for all of the occupied seats.

1 Press the **home** button to switch to the home display.

2 Touch the audio function key to open the audio menu.

3 Touch **Fader/Balance** on the audio function menu.

4 Touch **^** or **v** to adjust the front/rear speaker balance.

Range: **F 15 L/R 0** to **R 15 L/R 0**

- Select **F/R 0 L/R 0** when only using two speakers.

5 Touch **<** or **>** to adjust the left/right speaker balance.

Range: **F/R 0 L 15** to **F/R 0 R 15**

Note

You can also set the fader/balance by dragging the dot on the displayed table.

Using balance adjustment

Balance displays when Rear Speaker is set to **Subwoofer** on the System Menu. This setting will allow you to adjust the balance between right/left sound output.

1 Press the **home** button to switch to the home display.

2 Touch the audio function key to open the audio menu.

3 Touch **Balance** on the audio function menu.

4 Touch **<** or **>** to adjust the left/right speaker balance.
Range: **L 15** to **R 15**

Note

You can also set the balance by dragging the dot on the displayed table.

Using the equalizer

You can adjust the equalization to match the car's interior acoustic characteristics as desired.

Recalling equalizer curves

There are seven stored equalizer curves which you can easily recall at any time. Here is a list of the equalizer curves.

Display	Equalizer curve
S.Bass	Super bass
Powerful	Powerful
Natural	Natural
Vocal	Vocal
Flat	Flat
Custom1	Custom 1
Custom2	Custom 2

- The equalizer curves for **Custom1** and **Custom2** can be adjusted.
- You cannot select **Custom1** and **Custom2** when using the auto-equalizer.
- When **Flat**, no changes are made to the sound. You can check the effects of the equalizer curves by switching alternatively between **Flat** and another equalizer curve.

Audio adjustments

- 1 Press the home button to switch to the home display.
- 2 Touch the audio function key to open the audio menu.
- 3 Touch Graphic EQ on the audio function menu.
 - You cannot select or adjust the equalizer curves of **Custom1** and **Custom2** when using the auto-equalizer.
- 4 Touch the desired setting.
S.Bass—Powerful—Natural—Vocal—Flat—Custom1—Custom2

Adjusting the 8-band graphic equalizer

You can adjust the level of each band for the equalizer curves.

- A separate **Custom1** curve can be created for each source. If you make adjustments when a curve other than **Custom2** is selected, the equalizer curve settings will be stored in **Custom1**.
- A **Custom2** curve that is common for all sources can be created. If you make adjustments when the **Custom2** curve is selected, the **Custom2** curve will be updated.

- 1 Press the home button to switch to the home display.
- 2 Touch the audio function key to open the audio menu.
- 3 Touch Graphic EQ on the audio function menu.
- 4 Touch the desired setting.
S.Bass—Powerful—Natural—Vocal—Flat—Custom1—Custom2

- 5 Touch the table to adjust the level of the equalizer band.
 Range: **+12dB** to **-12dB**

Using the auto-equalizer

The auto-equalizer is an equalizer curve created by auto EQ (refer to *Auto EQ (auto-equalizing)* on page 43).

You can turn the auto-equalizer on or off. If you connect an optional microphone to this unit, you can use this function.

- 1 Press the home button to switch to the home display.
- 2 Touch the audio function key to open the audio menu.
- 3 Touch Auto EQ to turn the auto-equalizer on or off.
 - You cannot use this function if auto EQ has not been carried out.

Using sonic center control

Sound that is suited for the listening position can easily be created with this function.

- 1 Press the home button to switch to the home display.
- 2 Touch the audio function key to open the audio menu.
- 3 Touch Sonic Center Control on the audio function menu.
- 4 Touch < or > to select a listening position.
 Range: **Left 7** to **Right 7**

Audio adjustments

Adjusting loudness

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

- 1 Press the home button to switch to the home display.
- 2 Touch the audio function key to open the audio menu.
- 3 Touch ◀ or ▶ to select a desired level for loudness.
Off (off)—Low (low)—Mid (mid)—High (high)

Using subwoofer output

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

- The cut-off frequency and output level can be adjusted when the subwoofer output is on.

- 1 Press the home button to switch to the home display.
- 2 Touch the audio function key to open the audio menu.
- 3 Touch Subwoofer on the audio function menu.
- 4 Touch On or Off next to Subwoofer to turn the subwoofer output on or off.
- 5 Touch Normal or Reverse next to Phase to select the phase of subwoofer output.
- 6 Touch ◀ or ▶ next to Level to adjust the output level of the subwoofer.
 Range: **+6** to **-24**

- 7 Touch ◀ or ▶ next to Frequency to select the cut-off frequency.
50Hz—63Hz—80Hz—100Hz—125Hz

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

Boosting the bass

You can boost the bass level.

- 1 Press the home button to switch to the home display.
- 2 Touch the audio function key to open the audio menu.
- 3 Touch ◀ or ▶ to select a desired level.
 Range: **0** to **+6**

Using the high pass filter

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 the home button to switch to the home display.
- 2 Touch the audio function key to open the audio menu.
- 3 Touch ◀ or ▶ next to High Pass Filter to select cut-off frequency.
Off (off)—50Hz—63Hz—80Hz—100Hz—125Hz

Only frequencies higher than those in the selected range are output from the front or rear speakers.

Audio adjustments

Adjusting source levels

With SLA (source level adjustment), the volume levels of each source can be adjusted to prevent significant differences between sources.

- Settings are based on the FM volume level, which remains unchanged.

- 1 Press the home button to switch to the home display.
- 2 Touch the audio function key to open the audio menu.
- 3 Compare the FM volume level with the level of the source you wish to adjust.
- 4 Touch Source Level Adjuster on the audio function menu.

- 5 Touch $\wedge$ or $\vee$ to adjust the source volume.

Range: **+4** to **-4**

Notes

- **Source Level Adjuster** is not available when FM is selected as the source.
- The AM volume level can also be adjusted with this function.
- Video CD, CD, compressed audio, DivX, MPEG-1, MPEG-2 and MPEG-4 are automatically set to the same source level adjustment volume.

Setting up the video player

Setting the subtitle language

You can set a desired subtitle language. When available, the subtitles will be displayed in the selected language.

- 1 Press the home button to switch to the home display.
- 2 Touch the video setup key to open the video setup menu.
- 3 Touch Subtitle Language on the Video Setup menu.
A subtitle language menu is displayed.
- 4 Touch the desired language.

The subtitle language is set.

- If you have selected **Others**, refer to *When you select Others* on page 37.

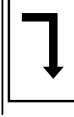
Notes

- If the selected language is not available, the language specified on the disc is displayed.
- You can also switch the subtitle languages by touching the switch subtitle languages key during playback.
- The setting made here will not be affected even if the subtitle language is switched during playback using the switch subtitle languages key.

When you select Others

A language code input display is shown when **Others** is selected. Refer to *Language code chart for DVD* on page 68.

- Touch **0** to **9** to input the language code.
- To cancel the entered numbers, touch **C**.
- To register the code, touch the following touch panel key.



Registering the code.

Setting the audio language

You can set the preferred audio language.

- 1 Press the home button to switch to the home display.
- 2 Touch the video setup key to open the video setup menu.
- 3 Touch Audio Language on the Video Setup menu.
An audio language menu is displayed.
- 4 Touch the desired language.

The audio language is set.

- If you have selected **Others**, refer to *When you select Others* on page 37.

Notes

- If the selected language is not available, the language specified on the disc is used.
- You can also switch the audio language by touching the switch audio languages key during playback.
- The setting made here will not be affected even if the audio language is switched during playback using the switch audio languages key.

Setting the menu language

You can set the preferred language in which the menus recorded on a disc are displayed.

- 1 Press the home button to switch to the home display.

Setting up the video player

- 2 Touch the video setup key to open the video setup menu.

- 3 Touch Menu Language on the Video Setup menu.

A menu language menu is displayed.

- 4 Touch the desired language.

The menu language is set.

- If you have selected **Others**, refer to *When you select Others* on page 37.

Note

If the selected language is not available, the language specified on the disc is displayed.

Setting the multi-angle DVD display

The angle icon can be set so it appears on scenes where the angle can be switched.

- 1 Press the home button to switch to the home display.
- 2 Touch the video setup key to open the video setup menu.
- 3 Touch Multi Angle on the Video Setup menu to turn angle icon display on or off.

Setting the aspect ratio

There are two kinds of display: a wide screen display that has a width-to-height ratio (TV aspect ratio) of 16:9, and regular display that has a TV aspect of 4:3. Be sure to select the correct TV aspect for the display connected to **V OUT**.

- When using regular display, select either **Letter Box** or **Pan Scan**. Selecting **16:9** may result in an unnatural picture.
- If you select the TV aspect ratio, the unit's display will change to the same setting.

Setting up the video player

- 3 Touch Time Per Photo Slide on the Video Setup menu to select the slideshow interval.

Touch **Time Per Photo Slide** repeatedly until the desired setting appears.

- **5sec** – JPEG images switch at intervals of 5 seconds
- **10sec** – JPEG images switch at intervals of 10 seconds
- **15sec** – JPEG images switch at intervals of 15 seconds
- **Manual** – JPEG images can be switched manually

Setting parental lock

Some DVD video discs let you use parental lock to restrict children from viewing violent and adult-oriented scenes. You can set parental lock to the desired level.

- When you have a parental lock level set and play a disc featuring parental lock, code number input indications may be displayed. In such cases, playback will begin when the correct code number is entered.

Setting the code number and level

A code number must be registered in order to play back discs with parental lock.

- 1 Press the home button to switch to the home display.
- 2 Touch the video setup key to open the video setup menu.
- 3 Touch Parental on the Video Setup menu.
- 4 Touch 0 to 9 to input a four digit code number.
 - To cancel the entered numbers, touch **C**.
 - To register the code, touch the following touch panel key.



Registering the code.

The code number is set, and the level can now be set.

- 5 Touch 1 to 8 to select the desired level.

- 6 Touch Enter.

The parental lock level is set.

- **8** – Playback of the entire disc is possible (initial setting)
- **7 to 2** – Playback of discs for children and non-adult-oriented discs is possible
- **1** – Playback of discs for children only is possible

Notes

- We recommend to keep a record of your code number in case you forget it.
- The parental lock level is stored on the disc. Look for the level indication written on the disc package, included literature or on the disc itself. Parental lock of this unit is not possible if a parental lock level is not stored on the disc.
- With some discs, the parental lock may be active only for certain levels of scenes. The playback of those scenes will be skipped. For details, refer to the instruction manual that came with the disc.

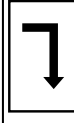
Changing the level

You can change the set parental lock level.

- 1 Press the home button to switch to the home display.
- 2 Touch the video setup key to open the video setup menu.
- 3 Touch Parental on the Video Setup menu.

Setting up the video player

- 4 Touch 0 to 9 to input the registered code number.
- 5 Registering the code.



Registering the code.

This sets the code number, and the level can now be changed.

- If you enter an incorrect code number, the  icon is displayed. Touch **C** and enter the correct code number.
- If you forget your code number, refer to *if you forget your code number* on page 39.

- 6 Touch 1 to 8 to select the desired level.

- 7 Touch Enter.

The new parental lock level is set.

If you forget your code number

- Press RESET.

Setting the DivX subtitle file

You can select whether or not to display DivX external subtitles.

- The DivX subtitles will be displayed even when **Custom** is selected if no DivX external subtitle files exist.

- 1 Press the home button to switch to the home display.
- 2 Touch the video setup key to open the video setup menu.
- 3 Touch DivX@ Subtitle on the Video Setup menu to select the desired subtitle setting.
 - **Original** – Display the DivX subtitles
 - **Custom** – Display the DivX external subtitles

Setting up the video player

- 2 Touch the video setup key to open the video setup menu.
- 3 Touch DivX@ VOD on the Video Setup menu.
- 4 Touch Deregistration Code.
 - To cancel deregistration, touch **Cancel**.
- 5 Touch OK.

The deregistration is complete.

Automatic playback of DVDs

When a DVD disc with a DVD menu is inserted, this unit will cancel the menu automatically and start playback from the first chapter of the first title.

- Some DVDs may not operate properly. If this function is not fully operable, turn this function off and start playback.

- 1 Press the home button to switch to the home display.
- 2 Touch the video setup key to open the video setup menu.
- 3 Touch DVD Auto Play to turn automatic playback on.
 - To turn automatic playback off, touch **DVD Auto Play** again.

Notes

- Up to 42 characters can be displayed on one line. If more than 42 characters are set, the line breaks and the characters are displayed on the next line.
- Up to 126 characters can be displayed on one screen. If more than 126 characters are set, the excess characters will not be displayed.

Displaying the DivX® VOD registration code

In order to play DivX VOD (video on demand) contents on this unit, the unit must first be registered with a DivX VOD contents provider. For registration, generate a DivX VOD registration code and submit it to your provider.

- Keep a record of the code as you will need it when you register your unit to the DivX VOD provider.

- 1 Press the home button to switch to the home display.
- 2 Touch the video setup key to open the video setup menu.
- 3 Touch DivX@ VOD on the Video Setup menu.

Registration Code and **Deregistration Code** appear.
- 4 Touch Registration Code.

Your registration code is displayed.

Displaying the deregistration code

If your device is already registered, deregister it by entering the deregistration code.

- 1 Press the home button to switch to the home display.

System settings

Switching the auxiliary setting

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

- 1 Press the home button to switch to the home display.
- 2 Touch the system key to open the system menu.
- 3 Touch AUX Input on the system menu to turn AUX Input on or off.

Setting AV input

Activate this setting when using an external video component connected to this unit.

- 1 Press the home button to switch to the home display.
- 2 Touch the system key to open the system menu.
- 3 Touch AV Input on the system menu to turn AV Input on or off.

Setting the navigation system

Activate this setting when connecting a Pioneer Add-on Navigation system (sold separately).

Device connection can be set when all of the following conditions are met.

- The iPhone is not connected.
- No Bluetooth connection.
- The source is turned off.

- 1 Turn the source off.
Refer to **Source off key** on page 7.
- 2 Press the home button to switch to the home display.

- 3 Touch the system key to open the system menu.

- 4 Touch Device connection on the system menu.

- 5 Touch NAVI to select.
NAVI – Navigation system

Setting the Pandora connect mode

Refer to *Setting the Pandora connect mode* on page 30.

Selecting MirrorLink Mode

You can select the MirrorLink Mode setting whether you use third party applications in your smartphone or not.

- 1 Press the home button to switch to the home display.
- 2 Touch the system key to open the system menu.
- 3 Touch the desired setting next to CD-ML100 Setting.

- **Car Mode** – You can use the launcher applications in your smartphone on the unit's screen.
- **App List Mode** – You can use the third party applications in your smartphone on the unit's screen.

Updating the firmware for the smartphone link adaptor

This function is used to update the smartphone link adaptor firmware with the latest firmware.

System settings

For about smartphone link adaptor firmware and updating, refer to our website. You can update only when smartphone link adaptor is available.



Important

- The USB storage device for updating must contain only the correct update file. If the USB storage device contains multiple files, the update will fail.
- Never turn the unit off and never disconnect the USB storage device while the firmware is being updated.
- You can only start the firmware update when the vehicle is stopped and the parking brake is engaged.

- 1 Downloading the firmware update files.

- 2 Connect a blank (formatted) USB storage device to your computer, and then locate and copy the correct update file onto the USB storage device.

- 3 Turn the source off.
Refer to *Turning the source ON/OFF* on page 8.

- 4 Press the home button to switch to the home display.

- 5 Touch the system key to open the system menu.

- 6 Touch CD-ML100 Update on the system menu.

- 7 Connect the USB storage device to the smartphone link adaptor.
Refer to *Connection for updating Smartphone link adaptor firmware* on page 53.

- 8 Touch Continue to display the update mode.
Follow the on-screen instructions to finish updating the smartphone link adaptor.

- 9 Remove the USB storage device from the smartphone link adaptor.

- 10 Turn the ignition switch OFF and then to ACC or ON.

Notes

- If update failed, please consult your dealer or the nearest authorized PIONEER Service Station.
- You cannot update while connected to Bluetooth.

Displaying the smartphone link adaptor firmware version

If smartphone link adaptor fails to operate properly, you may need to consult your dealer for repair. In such cases, you may be asked to specify the firmware version. Perform the following procedure to check the version on smartphone link adaptor.

- 1 Turn the source off.
Refer to *Turning the source ON/OFF* on page 8.

- 2 Press the home button to switch to the home display.

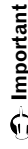
- 3 Touch the system key to open the system menu.

- 4 Touch CD-ML100 Firmware Info to display the version of the firmware of smartphone link adaptor.

System settings

Updating firmware

This function is used to update this unit with the latest firmware.
For about firmware and updating, refer to our website.



Important

- The USB storage device for updating must contain only the correct update file. If the USB storage device contains multiple files, the update will fail.
- Never turn the unit off and never disconnect the USB storage device while the firmware is being updated.
- You can only start the firmware update when the vehicle is stopped and the parking brake is engaged.

1 Downloading the firmware update files.

2 Connect a blank (formatted) USB storage device to your computer, and then locate and copy the correct update file onto the USB storage device.

3 Turn the source off.

Refer to *Turning the source ON/OFF* on page 8.

4 Press the home button to switch to the home display.

5 Touch the system key to open the system menu.

You can check the current version of your unit's firmware. Touch **Firmware Information** on the system menu to open the **Firmware Information** screen.

6 Touch **Firmware Update on the system menu**.

The confirmation screen appears on the display.

7 Connect the USB storage device according to the on-screen messages.

8 Touch **Continue to display the read file mode**.

Check any messages if warning screens appear on the display.

9 Touch **Start to display the data transfer mode**.

- Follow the on-screen instructions to finish updating the firmware.
- This unit will reset automatically after the firmware update is completed if the update is successful.

Note

If "Update Failed!" appears on the screen, turn the ignition switch to OFF, then turn the ignition switch to the ACC position to proceed and start the recovery sequence.

Displaying the firmware version

If this unit fails to operate properly, you may need to consult your dealer for repair. In such cases, you may be asked to specify the firmware version. Perform the following procedure to check the version on this unit.

1 Turn the source off.

Refer to *Turning the source ON/OFF* on page 8.

2 Press the home button to switch to the home display.

3 Touch the system key to open the system menu.

4 Touch **Firmware Information to display to the version of the firmware of this unit**.

System settings

Setting MIXTRAX mode

Refer to *Setting MIXTRAX mode* on page 29.

Changing the picture adjustment (Brightness, Contrast, Color, Hue, Dimmer and Temperature)

You can adjust the **Brightness** (brightness), **Contrast** (contrast), **Color** (color), **Hue** (hue), **Dimmer** (dimmer), and **Temperature** (temperature) for each source and rear view camera.

- You cannot adjust **Color** and **Hue** for the audio source.
- You cannot adjust **Color** and **Hue** for **NAVI**, **Apps** and **MirrorLink**.

1 Press the home button to switch to the home display.

2 Touch the system key to open the system menu.

3 If you are adjusting the Picture Adjustment, select the unit.

NAVI

Completing **Picture Adjustment** for the Navigation system when **Device connection** is set to **NAVI**.

Apps

Completing **Picture Adjustment** for the **AppRadio Mode** when **Device connection** is set to **iPhone via USB** or **iPhone via Bluetooth**.

MirrorLink

Completing **Picture Adjustment** for the **MirrorLink Mode**.

Rear View

Adjusting the **Picture Adjustment** for the rear view camera.

Source

Adjusting the **Picture Adjustment** for the source.

4 Touch any of the following touch panel keys to select the function to be adjusted. **Picture Adjustment** items are displayed.

- **Brightness** – Adjusts the black intensity
- **Contrast** – Adjusts the contrast
- **Color** – Adjusts the color saturation
- **Hue** – Adjusts the tone of color (red or green is emphasized)
- **Dimmer** – Adjusts the brightness of the display
- **Temperature** – Adjusts the color temperature, resulting in a better white balance
- You can adjust **Hue** only when the color system is set to NTSC.
- With some rear view cameras, picture adjustment may not be possible.

5 Touch ◀ or ▶ to adjust the selected item. Each time you touch ◀ or ▶, the level of the selected item increases or decreases.

- **Brightness, Contrast, Color**, and **Hue** can be adjusted from **+24** to **-24**.
- **Dimmer** can be adjusted from **+1** to **+48**.
- **Temperature** can be adjusted from **+3** to **-3**.

Notes

- You cannot operate this function while driving.
- Different **Brightness/Contrast/Dimmer** settings can be set for when the illumination switch is on and when it is off.

Selecting the system language

The system language can be selected.

System settings

If text information such as the title name, artist name or a comment is embedded in a European language, they can also be displayed on this unit.

- The language can be changed for the following:
 - Audio menu
 - System menu
 - Video Setup menu
 - Bluetooth menu
 - Language for cautions

- Some operations on this unit are prohibited from use while driving or require careful attention when operated. In such cases, a caution will appear on the display. You can change the language for caution messages with this setting.
- 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 Press the home button to switch to the home display.

- 2 Touch the system key to open the system menu.

- 3 Touch System Language on the system menu to select the desired language.

- 4 Touch the desired language.
English (English)—Français (French)—Español (Spanish)—Português (Portuguese)—中文 (Simplified Chinese)

Setting SiriusXM TuneStart™

Refer to *Setting SiriusXM TuneStart™* on page 16.

Resetting to default

Refer to *Resetting to default* on page 16.

Setting Demo Mode

Once Demo Mode is turned on, the Demo screen appears.

Refer to *Demo mode* on page 6.

- 1 Press the home button to switch to the home display.

- 2 Touch the system key to open the system menu.

- 3 Touch Demo Mode on the system menu to turn Demo Mode on or off.

- On – The Demo screen appears.
- Off – The Demo screen does not appear.

Switching sound muting/attenuation

In order to use this function, the unit's yellow/black lead must be connected to equipment with a mute function.

Refer to *Connecting the power cord* on page 50. Sound from this system is automatically muted or attenuated when a signal from equipment with a mute function is received.

- Sound from this system returns to normal when the muting or attenuation is canceled.

- 1 Press the home button to switch to the home display.

- 2 Touch the system key to open the system menu.

System settings

- 3 Touch Mute/ATT until the desired setting appears.

Touch **Mute/ATT** until the desired setting appears in the display.

- **Mute** – Muting
- **ATT -20dB** – Attenuation (**ATT -20dB** has a stronger effect than **ATT -10dB**)
- **ATT -10dB** – Attenuation
- **Off** – Turns the sound muting/attenuation off

Notes

- When **Mute** is displayed, the sound is turned off and no audio adjustments can be made.
- When **ATT** is displayed, the sound is attenuated and only the volume can be adjusted. (No other audio adjustments can be made.)
- Operation returns to normal when the phone connection is ended.

Setting the rear output and subwoofer controller

This unit's rear output (rear speaker leads output and RCA rear output) can be used for full-range speaker (**Full**) or subwoofer (**Subwoofer**) connection. If you switch the rear output setting to **Subwoofer**, you can connect a rear speaker lead directly to a subwoofer without using an auxiliary amp.

Initially, the unit is set for a rear full-range speaker connection (**Full**).

- 1 Turn the source off.

Refer to *Turning the source ON/OFF* on page 8.

- 2 Press the home button to switch to the home display.

- 3 Touch the system key to open the system menu.

- 4 Touch Rear Speaker on the system menu to switch the subwoofer output or full-range speaker.

- When no subwoofer is connected to the rear output, select **Full** (full-range speaker).
- When a subwoofer is connected to the rear output, select **Subwoofer** (subwoofer).

Notes

- Even if you change this setting, there will be no output unless you turn the subwoofer output on (refer to *Using subwoofer output* on page 36).
- Both rear speaker lead outputs and RCA rear output are switched simultaneously in this setting.

Using the keyboard

Keyboard is available only in **AppRadio Mode**. Refer to *Setting the Keyboard* on page 24.

Setting the ever scroll

When ever scroll is set to **On**, recorded text information scrolls continuously in the display. Set to **Off** if you prefer the information to scroll just once.

- 1 Press the home button to switch to the home display.

- 2 Touch the system key to open the system menu.

- 3 Touch Ever Scroll on the system menu to turn ever scroll on or off.

Setting the Bluetooth audio

(Function of AVH-X5600BHS/AVH-X4600BT/AVH-X3600BHS/AVH-X2600BT)

System settings

You need to activate the **Bluetooth Audio** source in order to use a Bluetooth audio player.

- 1 Press the **home button to switch to the home display**.
- 2 Touch the **system key to open the system menu**.
- 3 Touch **Bluetooth Audio on the system menu to turn Bluetooth audio on or off**.

Clearing Bluetooth memory



Never turn the unit off while the Bluetooth memory is being cleared.

- 1 Turn the **source off**.
Refer to *Turning the source ON/OFF* on page 8.

- 2 Press the **home button to switch to the home display**.

- 3 Touch the **system key to open the system menu**.

- 4 Touch **Bluetooth Memory Clear on the system menu**.

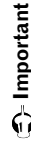
- 5 Touch **Clear**.

After selecting a desired item, a confirmation display appears. Touch **OK** to delete the memory.

- If you do not want to clear the memory, touch **Cancel**.

Updating Bluetooth software

This function is used to update this unit with the latest Bluetooth software. For about Bluetooth software and updating, refer to our website.



Never turn the unit off and never disconnect the phone while the software is being updated.

- 1 Turn the **source off**.
Refer to *Turning the source ON/OFF* on page 8.
- 2 Press the **home button to switch to the home display**.
- 3 Touch the **system key to open the system menu**.
- 4 Touch **BT Software Update**.

- 5 Touch **Start to display the data transfer mode**.

- Follow the on-screen instructions to finish updating the Bluetooth software.

Displaying the Bluetooth software version

If this unit fails to operate properly, you may need to consult your dealer for repair. In such cases, you may be asked to specify the software version. Perform the following procedure to check the version on this unit.

- 1 Turn the **source off**.
Refer to *Turning the source ON/OFF* on page 8.
- 2 Press the **home button to switch to the home display**.
- 3 Touch the **system key to open the system menu**.

- 4 Touch **Bluetooth Version Information to display to the version of the Bluetooth module of this unit**.

System settings

Setting the rear view camera (back up camera)



Pioneer recommends the use of a camera which outputs mirror-reversed images. Otherwise, the screen image will appear reversed.

This unit features a function that automatically switches to the rear view camera video (**R.C IN**) when a rear view camera is installed on your car and the shift lever is moved to the **REVERSE (R)** position. (For more details, consult your dealer.)

You can also switch the rear view image by pressing the touch panel key.

For details refer to *Using the rear view* on page 10.

- After you set up the rear view camera setting, move the shift lever to **REVERSE (R)** and confirm that the rear view camera video is shown on the display.
- Change this setting if the display switches to the rear view camera video by error while you are driving forward.
- To stop watching the rear view camera video and return to the source display, press and hold **MUTE**.
- Touch the **RearView** source icon to display the rear view camera image while driving.
- Touch the source icon again to turn the rear view camera off. For details, refer to *Selecting a source* on page 8.

- 1 Press the **home button to switch to the home display**.

- 2 Touch the **system key to open the system menu**.

- 3 Touch **Camera Polarity on the system menu to select the appropriate setting**.

- **Battery** – When the polarity of the connected lead is positive while the shift lever is in **REVERSE (R)** position
- **Ground** – When the polarity of the connected lead is negative while the shift lever is in **REVERSE (R)** position
- **Off** – When a rear view camera is not connected to this unit
- The rear view key setting also turns off on the home display screen.

Auto EQ (auto-equalizing)

The auto-equalizer automatically measures the car's interior acoustic characteristics, and then creates an auto-equalizer curve based on that information.

- To perform this function, dedicated microphone (e.g. CD-MC20) is required.



As a loud tone (noise) may be emitted from the speakers when measuring the car's interior acoustic characteristics, never perform auto EQ while driving.



- Thoroughly check the conditions before performing auto EQ as the speakers may be damaged if these functions are performed when:
 - The speakers are incorrectly connected. (For example, when a rear speaker is connected as a subwoofer output.)
 - A speaker is connected to a power amp delivering output higher than the speaker's maximum input power capability.

System settings

- If the microphone is placed in an unsuitable position the measurement tone may become loud and measurement may take a long time, resulting in battery drainage. Be sure to place the microphone in the specified location.

Before operating the auto EQ function

- Carry out auto EQ in as quiet a place as possible, with the car engine and air conditioning switched off. Also cut power to car phones or portable telephones in the car, or remove them from the car before carrying out auto EQ. Sounds other than the measurement tone (surrounding sounds, engine sound, telephones ringing etc.) may prevent correct measurement of the car interior acoustic characteristics.
- Be sure to carry out auto EQ using the optional microphone. Using another microphone may prevent measurement, or result in incorrect measurement of the car interior acoustic characteristics.
- In order to perform auto EQ, the front speaker must be connected.
- When this unit is connected to a power amp with input level control, auto EQ may not be possible if the power amp's input level is set below the standard level.
- When this unit is connected to a power amp with an LPF, turn this LPF off before performing auto EQ. Also set the cut-off frequency for the built-in LPF of an active subwoofer to the highest frequency.
- The distance has been calculated by computer to be the optimum delay to give accurate results for the circumstances, so please continue to use this value.
 - The reflected sound within the car is strong and delays occur.
 - The LPF on active subwoofers or external amps delay the lower sounds.
- Auto EQ changes the audio settings as follows:

- The fader/balance settings return to the center position. (Refer to *Using fader/balance adjustment* on page 35.)
- The equalizer curve switches to **Flat**. (Refer to *Recalling equalizer curves* on page 35.)
- The front, center and rear speakers will automatically be adjusted to a high pass filter setting.
- Previous settings for auto EQ will be overwritten.
- If using an AVH-X3600BHS, AVH-X2600BT, or AVH-X1600DVD, connect a microphone extension cable (sold separately) to the AUX input in advance.

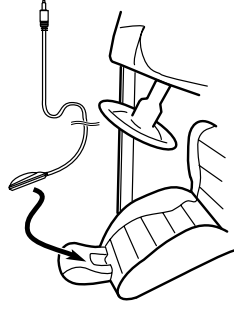
Performing auto EQ

- Stop the car in a place that is quiet, close all the doors, windows and sun roof, and then turn the engine off.**

If the engine is left running, engine noise may prevent correct auto EQ.

- Fix the optional microphone in the center of the headrest of the driver's seat, facing forward.**

The auto EQ may differ depending on where you place the microphone. If desired, place the microphone on the front passenger seat to carry out auto EQ.



- Turn the ignition switch to ON or ACC.**

If the car's air conditioner or heater is turned on, turn it off. Noise from the fan in the air conditioner or heater may prevent correct auto EQ.

System settings

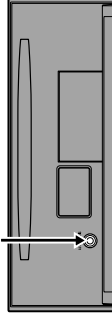
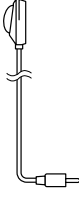
- Press the home button to switch to the home display.**

- Touch the system key to open the system menu.**

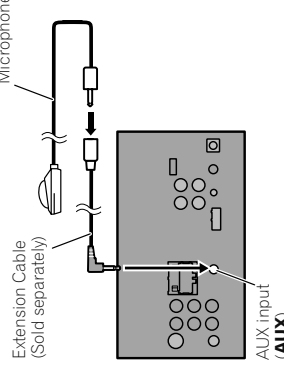
- Touch Auto EQ Measurement to enter auto EQ measurement mode.**

- Plug the microphone into the microphone input jack on this unit.**

AVH-X5600BHS and AVH-X4600BT



AVH-X3600BHS, AVH-X2600BT and AVH-X1600DVD



- Touch Start to start auto EQ.**

- When the 10-second countdown starts, get out of the car and close the door within 10 seconds.**

A measurement tone (noise) is emitted from the speakers, and auto EQ measurement begins.

When auto EQ is completed, **The measurement has finished. Please disconnect the microphone and then push HOME key.** is displayed. When the car's interior acoustic characteristics cannot be measured correctly, an error message will be displayed. (Refer to *Understanding auto EQ error messages* on page 60.)

- It takes about nine minutes for auto EQ measurement to be completed when all the speakers are connected.
- To stop auto EQ, touch **Stop**.

- Store the microphone carefully in the glove compartment or another safe place.**
- If the microphone is subjected to direct sunlight for an extended period, high temperatures may cause distortion, color change or malfunction.

Setting the video signal

When you connect this unit to an AV equipment to this unit, select the suitable video signal setting.

- As this function is initially set to **Auto**, the unit will automatically adjust the video signal setting.
- You can operate this function only for the video signal input into the AV input.

- Press the home button to switch to the home display.**

- Touch the system key to open the system menu.**

- Touch Video Signal Setting on the system menu.**

Video Signal Setting items are displayed.

- AV** – Adjusts the AV video signal
- AUX** – Adjusts the AUX video signal
- Camera** – Adjusts the rear view camera video signal

- Touch ◀ or ▶ to select the desired video signal appears.**

Auto—PAL—NTSC—PAL-M—PAL-N—SECAM

Favorite menu

Using the Favorite menu

- 1 Display menu columns to register.
Refer to *Menu operations* on page 35.
- You can customize menus except **Video Setup** menu.

- 2 Touch the star icon in the menu column for the desired menu to register the menu.
The star icon for the selected menu is filled in.
- To cancel the registration, touch the star icon in the menu column again.

- 3 Display the favorite menu and choose a registered menu.
Refer to *Menu operations* on page 35.

Note

You can register up to 12 columns.

Bluetooth connection menu

Bluetooth connection menu operations

(Function of AVH-X5600BHS/AVH-X4600BT/AVH-X3600BHS/AVH-X2600BT)

Note

If you are using a cellular phone that can be connected via Bluetooth wireless technology, we recommend that you use your phone to search for this unit and establish a connection between it and your phone. The PIN code is set to **0000** as default. The product name for this unit will display on your phone as the device name. For details, refer to *Entering PIN code for Bluetooth wireless connection* on page 46. For further details concerning the procedures for establishing Bluetooth wireless connections, refer to the instruction manual for the phone.

Pairing from this unit

- 1 Press the home button to switch to the home display.
- 2 Touch the Bluetooth key to open the Bluetooth connection menu.
- 3 Touch Connection to select a device.
- 4 Start to search.



Starting to search.

While searching,  is displayed and when available devices are found, the device names or Bluetooth device addresses (if names cannot be obtained) are displayed.

- If you want to switch between the device names and Bluetooth device addresses, touch the icon.



Switching between the device names and Bluetooth device addresses.

- To cancel searching, touch **Stop**.
- If three devices are already paired, **Memory Full** is displayed and pairing cannot be performed. In such cases, delete a paired device first. Refer to page 45.
- If no device can be found, **Not Found** is displayed. In such cases, check the status of the Bluetooth device and search again.

- 5 Touch a device name to select the device you want to connect to.

While connecting, **Pairing** is displayed. If the connection is established, **Paired** is displayed.

- If your device support SSP (Secure Simple Pairing), six-digit number appears on the display of this unit. Once the connection is established, this number disappears.

- If the connection fails, **Error** is displayed. In such cases, try again from the beginning.
- The PIN code is set to **0000** as the default, but can be changed. Refer to *Entering PIN code for Bluetooth wireless connection* on page 46.
- Once the connection is established, the device name is displayed.
- Touch the device name to disconnect.
- If you want to delete a paired Bluetooth telephone, display **Delete OK?**. Touch **Yes** to delete the device.



Deleting a paired device.

- Never turn the unit off while the paired Bluetooth telephone is being deleted.

Bluetooth connection menu

Connecting to a Bluetooth device automatically

If this function is set to on, a connection between your Bluetooth device and this unit will take place automatically as soon as the two devices are less than a few meters apart. Initially, this function is set to on.

- 1 Press the home button to switch to the home display.
- 2 Touch the Bluetooth key to open the Bluetooth connection menu.

- 3 Touch Auto Connect to turn automatic connection on.
If your Bluetooth device is ready for a Bluetooth wireless connection, a connection to this unit will automatically be established.
 - To turn automatic connection off, touch Auto Connect again.

If connection fails, "Auto connection failed. Retry?" appears. Touch Yes to reconnect.

- 4 Once you turn your vehicle's ACC switch on again, a connection is established automatically.

Switching visible unit

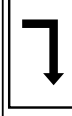
This function sets whether or not to make this unit visible to the other device. Initially, this function is set to on.

- 1 Press the home button to switch to the home display.
- 2 Touch the Bluetooth key to open the Bluetooth connection menu.
- 3 Touch Visibility to select visibility off.
 - To turn visibility on, touch Visibility again.

Entering PIN code for Bluetooth wireless connection

To connect your Bluetooth device to this unit via Bluetooth wireless technology, you need to enter a PIN code on your Bluetooth device to verify the connection. The default code is 0000, but you can change it with this function.

- 1 Press the home button to switch to the home display.
- 2 Touch the Bluetooth key to open the Bluetooth connection menu.
- 3 Touch PIN Code Input to select PIN Code Input.
- 4 Touch 0 to 9 to input pin code.
- 5 After inputting PIN code (up to 8 digits), store in this unit.



Storing the PIN code in this unit.

Displaying Bluetooth Device address

This unit displays its Bluetooth device address.

- 1 Press the home button to switch to the home display.
- 2 Touch the Bluetooth key to open the Bluetooth connection menu.
- 3 Touch Device Information to display device information.
The Bluetooth device address is displayed.

Theme menu

Selecting the illumination color

This unit is equipped with multiple-color illumination.

Direct selection from preset illumination colors

You can select an illumination color from the color list.

- 1 Press the home button to switch to the home display.
- 2 Touch the theme key to open the theme settings.
- 3 Touch Illumination and then touch a color on the list.
Red—Amber—Green—Blue—White—Custom—Rainbow
 - When Rainbow is selected, the illumination color automatically changes.

Customizing the illumination color

- 1 Press the home button to switch to the home display.
- 2 Touch the theme key to open the theme settings.
- 3 Touch Illumination and then touch Custom.
- 4 Display the customizing menu.



Displaying the customizing menu.

- 5 Touch the color bar to customize the color.

- 6 Touch ◀ or ▶ to fine-tune the color.
- 7 Touch and hold the icon to store the customized color in the memory.

Memo

Storing the customized color in the memory.

The customized color has been stored in the memory.
The set color will be recalled from the memory the next time you touch the same icon.

Selecting the OSD (on-screen display) color

The OSD color can be changed.

- 1 Press the home button to switch to the home display.
- 2 Touch the theme key to open the theme settings.
- 3 Touch Screen.
- 4 Touch one of the colors on the list.

Selecting the background display

You can switch the background that is displayed when listening to a source.

- 1 Press the home button to switch to the home display.
- 2 Touch the theme key to open the theme settings.
- 3 Touch Background.

Theme menu

4 Touch the desired setting.

- You can view the hidden settings by flicking the display.
- If no JPEG images are stored in this unit, you cannot select photo. To store a JPEG image to this unit, refer to *Capture an image in JPEG files* on page 28.
- If you want to delete the captured JPEG image, touch and hold the key of the JPEG image.

Other functions

Adjusting the response positions of the touch panels (Touch Panel Calibration)

If you feel that the touch panel keys on the screen deviate from the actual positions that respond to your touch, adjust the response positions of the touch panel. There are two adjustment methods: four-point adjustment, in which you touch four corners of the screen; and 16-point adjustment, in which you make fine-adjustments on the entire screen.

- Park your car in a safe place and use this function. Do not operate it while driving.
- Touch the screen gently for adjustment. Forcefully pressing the touch panel may damage the touch panel. Do not use a sharp pointed tool such as a ballpoint pen or mechanical pen. Doing so may damage the screen.
- If the touch panel cannot be adjusted properly, consult your local Pioneer dealer.

1 Turn the source off.

Refer to *Turning the source ON/OFF* on page 8.

2 Press and hold the home button to start Touch Panel Calibration.

The four-point touch panel adjustment screen appears. When two-point appears at once, touch both.

3 Touch each of the arrows on the four corners of the screen.

- To cancel the adjustment, press and hold the home button.

4 Press the home button to complete four-point adjustment.

- Data for the adjusted position is saved.
- Do not turn off the engine while the data is being saved.

5 Press the home button to proceed to 16-point adjustment.

The 16-point touch panel adjustment screen appears.

- To cancel the adjustment, press and hold the home button.

6 Gently touch the center of the + mark displayed on the screen.

After you touch all the marks, the data for the adjusted position is saved.

- Do not turn off the engine while the data is being saved.

7 Press and hold the home button to complete the adjustment.

Using an AUX source

An auxiliary device or portable device sold separately can be connected to this unit.

About AUX connection methods

You can connect auxiliary devices to this unit.

Mini pin plug cable (AUX)

When connecting an auxiliary device using a mini plug cable

iPods and portable audio/video players can be connected to this unit via mini plug cable.

- If an iPod with video capabilities is connected to this unit via 3.5 mm plug (four pole) cable (such as the CD-V150M), you can enjoy the video contents of the connected iPod.
- A portable audio/video player can be connected by using a 3.5 mm plug (four pole) with an RCA cable (sold separately). However, depending on the cable, a reverse connection between the red (right side audio) cable and yellow (video) cable may be required in order for the sound and video image to be reproduced correctly.

Other functions

- **Insert the stereo mini plug into the AUX input jack on this unit.**
Refer to *Connecting the power cord* on page 50.

Resetting the microprocessor

By pressing **RESET**, you can reset the microprocessor to its initial settings without changing the bookmark information.

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 Turn the ignition switch **OFF**.

- 2 Press **RESET** with a pen tip or other pointed instrument.

Refer to *What's what* on page 7.

Note

Switch your engine ON or set the ignition switch to ACC ON before pressing **RESET** in the following situations:

- After completing connections
- When erasing all stored settings
- When resetting the unit to its initial (factory) settings

Operating the sound mixer

You can listen to audio from the unit and your iPhone or smartphone simultaneously. The main sound is from the unit. The sub sound is from the iPhone or smartphone. You can control the volume of the sub sound on the screen.

- 1 Connect your iPhone or smartphone to the unit with the RGB input.

Refer to *When connecting with optional CD-11203 cable* on page 52.

Refer to *When connecting with optional CD-11201/S cable* on page 53.

Connection

WARNING

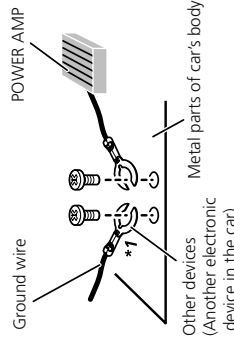
In some countries or states the viewing of images on a display inside a vehicle even by persons other than the driver may be illegal. Where such regulations apply, they must be obeyed and this unit's DVD features should not be used.

CAUTION

- Do not drill a hole into the engine compartment to connect the yellow cable of the display unit to the vehicle battery. Engine vibration may eventually cause the insulation to fail at the point where the wire passes from the passenger compartment into the engine compartment. Take extra care in securing the wire at this point.
- Make sure that cables will not interfere with moving parts of the vehicle, such as the shift lever, parking brake or seat sliding mechanism.

WARNING

- Use speakers over 50 W (output value) and between 4 Ω to 8 Ω (impedance value). Do not use 1 Ω to 3 Ω speakers for this unit.



***1 Non supplied for this unit**

Important

- This unit cannot be installed in a vehicle without ACC (accessory) position on the ignition switch.



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.

Connection

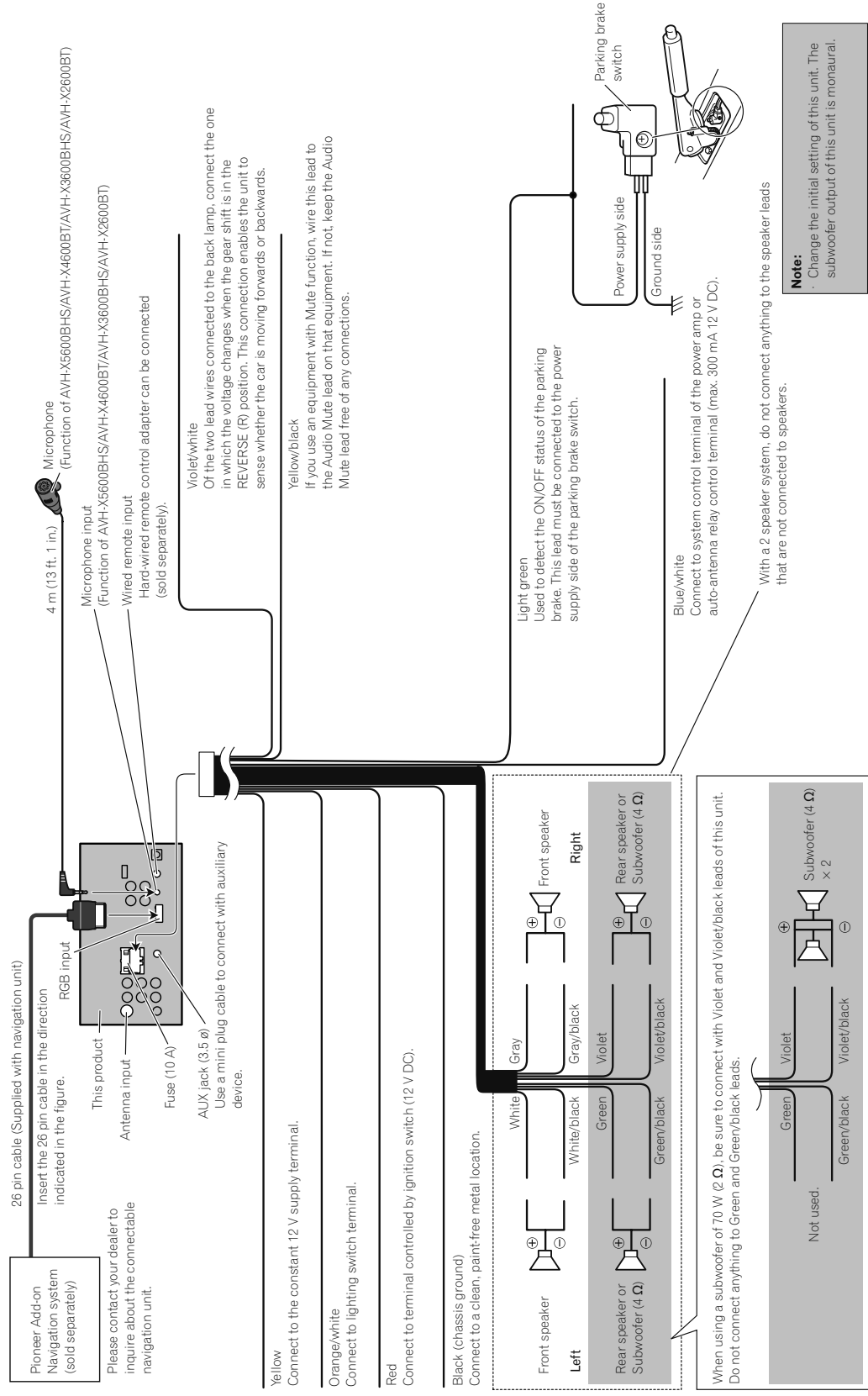
Connection

- 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.

Connection

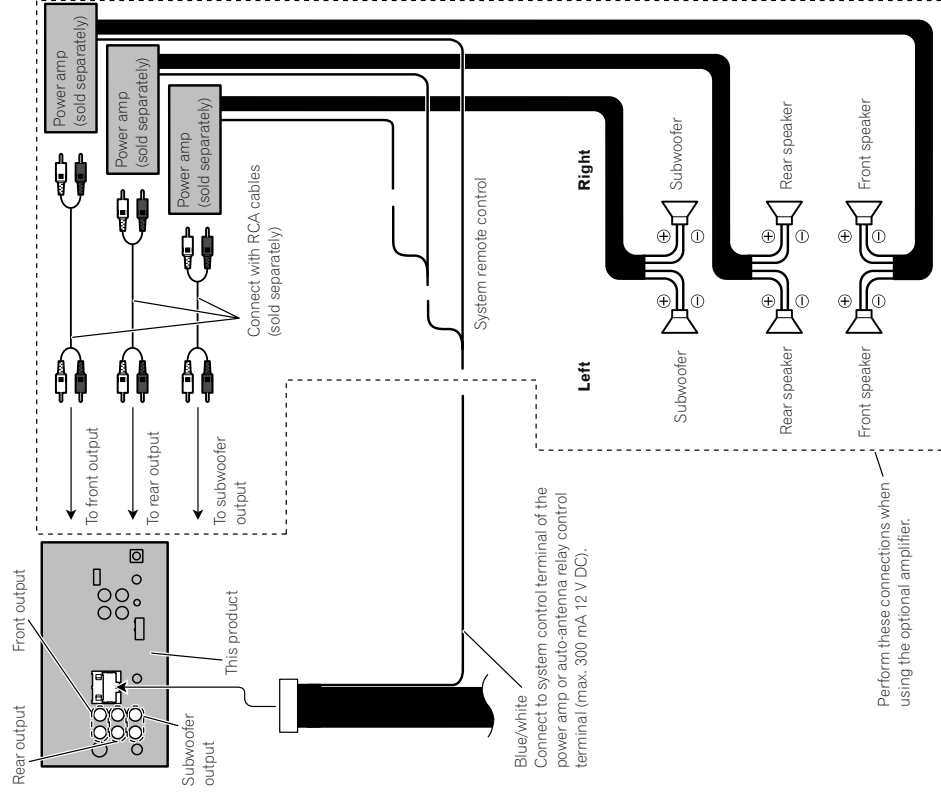
Connection

Connecting the power cord

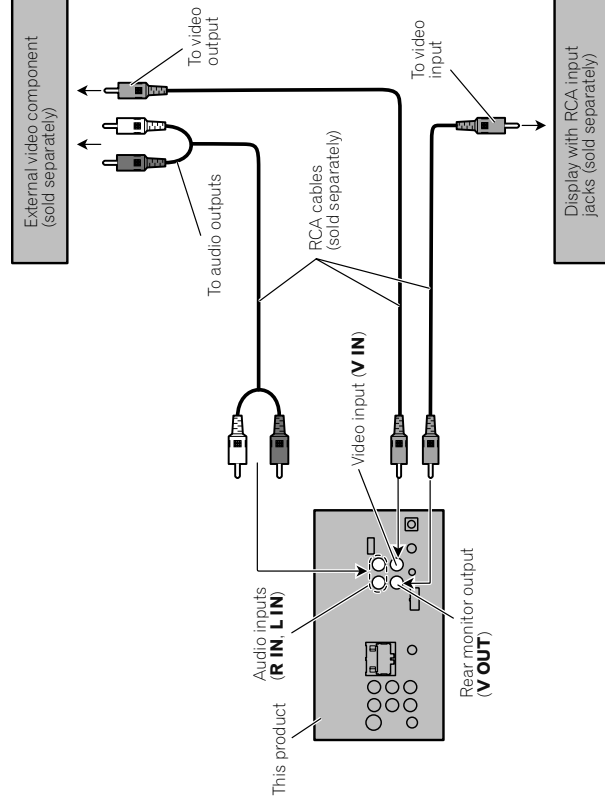


Connection

When connecting to separately sold power amp



When connecting the external video component and the display



- It is necessary to change **AV Input** in the system menu when connecting the external video component.
Refer to *Setting AV input* on page 40.

This product's rear video output is for connection of a display to enable passengers in the rear seats to watch the DVD, etc.

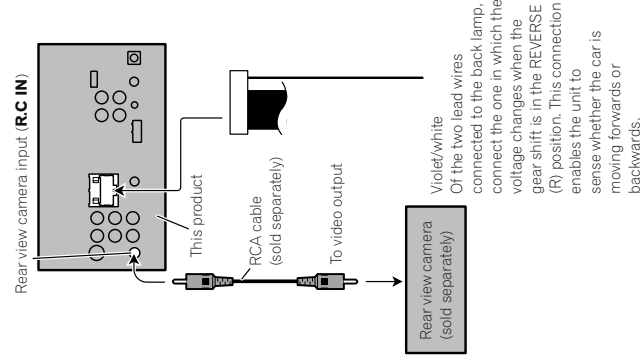
WARNING

Never install a rear display in a location that is visible to the driver while the vehicle is in motion.

Connection

When connecting with a rear view camera

If you switch the shift lever to REVERSE (R), the display on this unit will automatically switch to the rear view image. You need to set the **Camera Polarity** properly in the system unit to use. For details on settings, refer to *Setting the rear view camera (back up camera)* on page 43. You can also switch to the rear view image by pressing the touch panel key. For details, refer to *Using the rear view* on page 10.



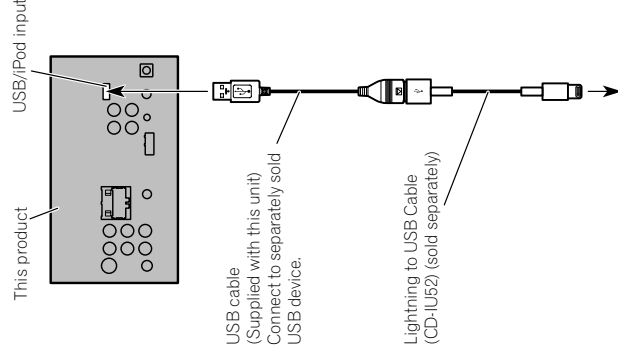
WARNING
USE INPUT ONLY FOR REVERSE OR MIRROR IMAGE REAR VIEW CAMERA. OTHER USE MAY RESULT IN INJURY OR DAMAGE.



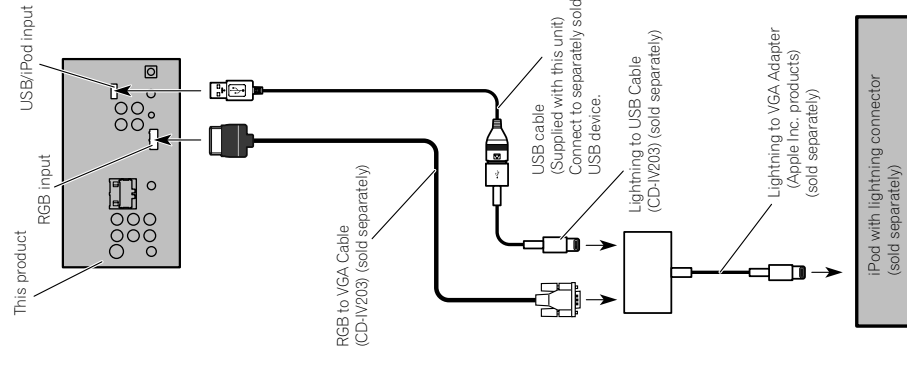
- You must use a camera which outputs mirror reversed images.**
- The screen image may appear reversed.
- The rear view camera function is to be used as an aid to keep an eye on trailers, or while backing up. Do not use for entertainment purposes.
- Objects in the rear view may appear closer or more distant than they actually are.

Connection

iPod with lightning connector When connecting with optional CD-IU52 cable

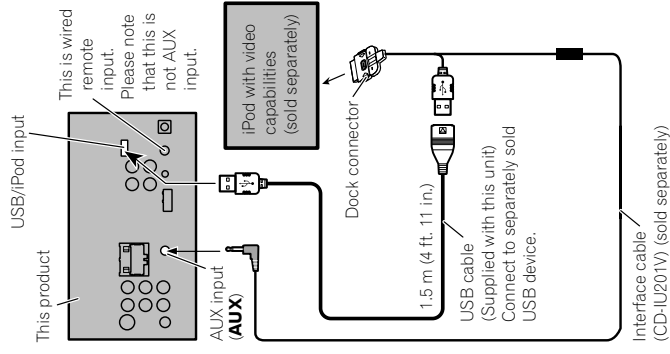


When connecting with optional CD-IV203 cable

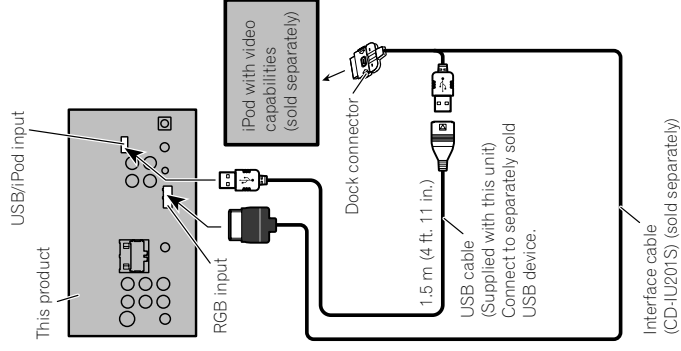


Connection

iPod with 30-pin connector When connecting with optional CD-IU201V cable

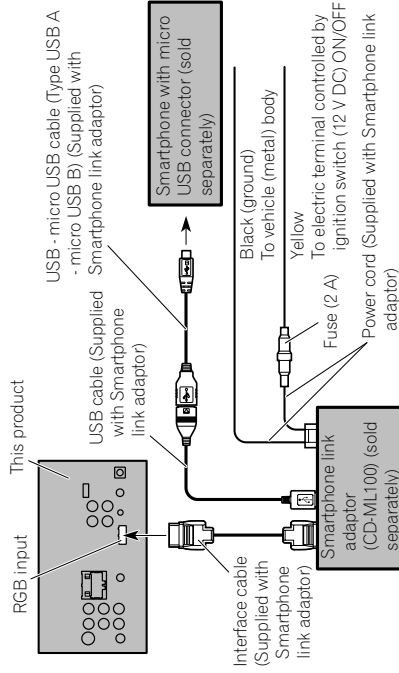


When connecting with optional CD-IU201S cable



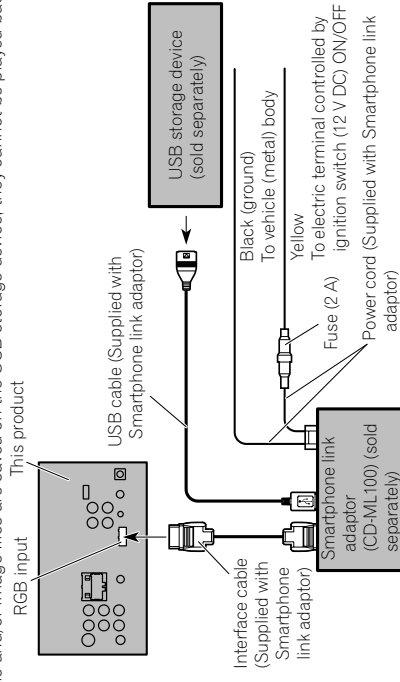
Connection

Optional Smartphone link adaptor (CD-ML100) connection



Connection for updating Smartphone link adaptor firmware

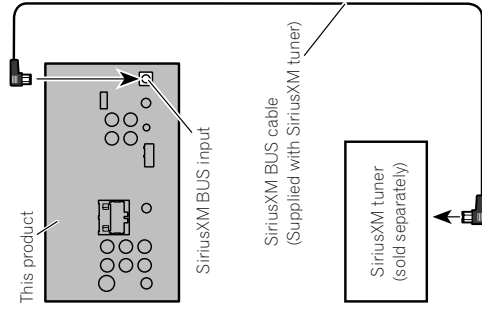
Even if music and/or image files are saved on the USB storage device, they cannot be played back.



Connection

Optional SiriusXM Tuner connection

(Function of AVH-X5600BHS/AVH-X3600BHS)

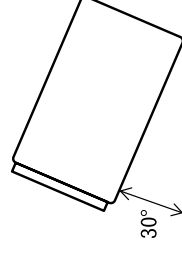


- A maximum of 500 mA can be supplied from the unit to the SiriusXM tuner.

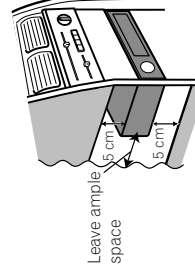
Installation

Notes

- 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 30°.



- When installing, to ensure proper heat dissipation 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.

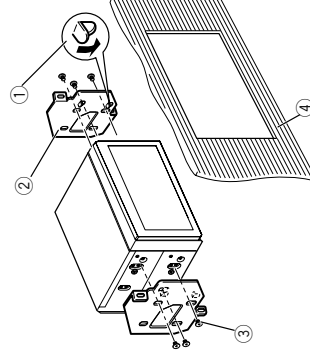
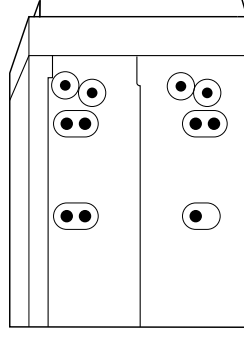


- To some types of vehicles, this unit cannot be properly installed. In such case, use the optional installation kit (ADT-VA133).

Installation using the screw holes on the side of the unit

- **Fastening the unit to the factory radio-mounting bracket.**

Position the unit so that its screw holes are aligned with the screw holes of the bracket, and tighten the screws at three locations on each side.



- 1 If the pawl gets in the way, bend it down.
- 2 Factory radio mounting bracket
- 3 Use either truss (5 mm × 8 mm) or flush surface (5 mm × 9 mm) screws, depending on the kind of screws that the mounting bracket screw holes will accept.
- 4 Dashboard or console

Installation

Installing the microphone

(Function of AVH-X5600BHS/AVH-X4600BT/AVH-X3600BHS/AVH-X2600BT)



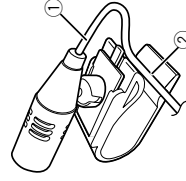
It is extremely dangerous to allow the microphone lead to become wound around the steering column or shift lever. Be sure to install the unit in such a way that it will not obstruct driving.

Notes

- Install the microphone in a position and orientation that will enable it to pick up the voice of the person operating the system.
- Use separately sold clamps to secure the lead where necessary inside the vehicle.

When installing the microphone 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.

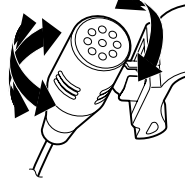
With the sun visor up, install the microphone clip. (Lowering the sun visor reduces the voice recognition rate.)

- 2 Install the microphone on the steering column.



- ① Double-sided tape
- ② Install the microphone on the rear side of the steering column.

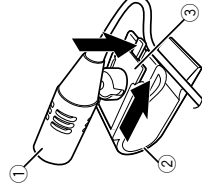
Adjusting the microphone angle



When installing the microphone on the steering column

- 1 Detach the microphone base from the microphone clip.

To detach the microphone base from the microphone clip, slide the microphone base.



- ① Microphone
- ② Microphone clip
- ③ Microphone base

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.

Common

The power will not turn on.
The unit will not operate.

Leads and connectors are incorrectly connected. Confirm once more that all connections are correct.

The fuse is blown.

Rectify the cause and then replace the fuse. Be sure to install a fuse with the same rating.

Noise and/or other factors are causing the built-in microprocessor to operate incorrectly.

Press **RESET**. (Page 48)

Operation with the remote control is not possible.

The unit does not operate correctly even when the appropriate remote control buttons are pressed.

Battery power is low.

Load a new battery.

Some operations are prohibited with certain discs. Try operating with another disc.

Playback is not possible.

The disc is dirty.

Clean the disc.

The type of disc loaded cannot be played on this unit.

Check the disc type.

The disc loaded is not compatible with this video system.

Change the disc to one that is compatible with your video system.

Additional information

File size and transmission rate are above recommended rates.

Create a DivX file that is within the recommended size and transmission rate.

The aspect ratio is incorrect and the image is stretched.

The aspect ratio setting is incorrect for the display. Select the appropriate setting for your display. (Page 38)

The motor sounds when the ignition switch is turned ON (or is turned to ACC).

The unit is confirming whether or not a disc is loaded.

This is a normal operation.

Nothing is displayed.

The touch panel keys cannot be used.

The rear view camera is not connected.

Connect a rear view camera.

Camera Polarity is at incorrect setting.

Press the home button to return to the source display and then select the correct setting for

Camera Polarity. (Page 43)

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.

Subfolders cannot be played back.

Folder repeat play has been selected.

Select the repeat range again.

The repeat range changes automatically.

Another folder was selected during repeat play.

Select the repeat range again.

Track search or fast forward/reverse was performed during file repeat play.

Select the repeat range again.

DVD

Playback is not possible.

The loaded disc has a different region number from this unit.

Replace the disc with one featuring the same region number as this unit.

A parental lock message is displayed and playback is not possible.

Parental lock is activated.

Turn parental lock off or change the level. (Page 38)

Parental lock cannot be canceled.

The code number is incorrect.

Enter the correct code number. (Page 38)

You have forgotten your code number.

Press **RESET**. (Page 48)

Dialog language (and subtitle language) cannot be switched.

The DVD being played does not feature multiple language recordings.

The language cannot be switched if they are not recorded on the disc.

You can only switch between items indicated in the disc menu.

Switch the language using the disc menu.

No subtitles are displayed.

The DVD being played does not feature subtitles.

Subtitles are not displayed if they are not recorded on the disc.

You can only switch between items indicated in the disc menu.

Switch the language using the disc menu.

Additional information

Playback is not performed with the audio language and subtitle language settings selected in Video Setup menu.

The DVD being played does not feature dialog or subtitles in the selected language.
The language cannot be switched if the selected language is not recorded on the disc.

The viewing angle cannot be switched.

The DVD being played does not feature scenes shot from multiple angles.
The viewing angle cannot be switched if the DVD does not feature scenes recorded from multiple angles.
You are trying to switch to multi-angle viewing for a scene that was not recorded from multiple angles.
Switch between multiple angles when watching scenes recorded from multiple angles.

The image is extremely unclear/distorted and dark during playback.

Some discs feature a signal to prohibit copying.
Since this unit is compatible with the analog copy generation management system, when playing a disc that has a signal prohibiting copying, horizontal stripes or other imperfections may appear when viewed on some displays. This is not a malfunction.

Video CD

The PBC (playback control) menu cannot be called up.

The Video CD being played does not feature PBC.
This operation is not available for Video CDs that do not feature PBC.

Repeat play and track/time search are not possible.

The Video CD being played features PBC.
This operation is not available for Video CDs that feature PBC.

iPod

The iPod does not operate correctly.

The cables are incorrectly connected.
Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
The iPod version is old.
Update the iPod version.

Sound from the iPod cannot be heard.

The audio output direction may switch automatically when the Bluetooth and USB connections are used at the same time.
Use the iPod to change the audio output direction.

Bluetooth audio/telephone

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.
Do not use the cellular phone at this time.
A call was made with a Bluetooth connected cellular phone and then immediately terminated. As a result, communication between this unit and the cellular phone was not terminated properly.
Reconnect the Bluetooth connection between this unit and the cellular phone.

Additional information

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.

Tuner

No Data Provided

This unit cannot receive artist name/song title information.
Move to the desirable location with good reception.

No Data

This unit cannot receive program service name information.
Move to the desirable location with good reception.

SiriusXM Satellite Radio

Check Antenna

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

Check Tuner

The SiriusXM Connect Vehicle Tuner connection is incorrect or the power failed.
Check the tuner connection and battery voltage.
If the message fails to disappear even after the engine is switched off/on, contact your dealer or an authorized Pioneer Service Station for assistance.

No Signal

The SiriusXM Connect Vehicle Tuner is having difficulty receiving the SiriusXM satellite signal.

- Verify that your vehicle is outdoors with a clear view of the southern sky.
- Verify that the SiriusXM magnetic mount antenna is mounted on a metal surface on the outside the vehicle.
- Move the SiriusXM antenna away from any obstructions.

Subscription Updated

This unit has detected a change in your SiriusXM subscription status.
Press any key to clear the message.

Not Available

The channel that you have requested is not a valid SiriusXM channel.
Check the SiriusXM channel lineup.

Additional information

Channel Not Subscribed. Call SiriusXM to Subscribe.

The channel that you have requested is not included in your SiriusXM subscription package.

Check the content of your SiriusXM subscription package.

Channel Locked

Locked by the radio Parental Control feature. Release the channel lock.

DVD

Different Region Disc

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

Replace the DVD with one bearing the correct region number.

Error-02-XX/FF-FF

The disc is dirty.

Clean the disc.

The disc is scratched.

Replace the disc.

The disc is loaded upside down.

Check that the disc is loaded correctly.

There is an electrical or mechanical error.

Press **RESET**. (Page 48)

Unplayable Disc

This type of disc cannot be played on this unit.

Replace the disc with one that can be played on this unit.

The inserted disc does not contain any playable files. Replace the disc.

Protect

All the files on the inserted disc are embedded with DRM.

Replace the disc.

Additional information

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.

Video frame rate not supported

DivX file's frame rate is more than 30 fps.

Select a file that can be played.

Audio Format not supported

This type of file is not supported on this unit.

Select a file that can be played.

External storage device (USB)

Unplayable File

This type of file cannot be played on this unit.

Select a file that can be played.

There are no songs.

Transfer the audio files to the USB portable audio player/USB memory and connect.

Security for the connected USB memory is enabled.

Follow the USB memory instructions to disable security.

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.

Skipped

The connected USB portable audio player/USB memory contains WMA files that are protected by Windows Media™ DRM 9/10.

Play an audio file not embedded with Windows Media™ DRM 9/10.

Protect

All the files on the connected USB portable audio player/USB memory are protected by Windows Media DRM 9/10.

Transfer audio files not protected by Windows Media DRM 9/10 to the USB portable audio player/USB memory and connect.

Incompatible USB

The connected USB device is not supported by this unit.

Connect a USB portable audio player or USB memory that is USB Mass Storage Class compliant.

The USB device is not formatted with FAT12, FAT16 or FAT32.

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

Check USB

The USB connector or USB cable has short-circuited.

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

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

Disconnect the USB portable audio player/USB memory and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB portable audio player/USB memory.

Error-02-9X/-DX

Communication failed.

Perform one of the following operations.

–Turn the ignition switch OFF and back ON.

–Disconnect the USB portable audio player/USB memory.

–Change to a different source.

Then, return to the USB portable audio player/USB memory.

Additional information

This DivX rental has expired.

The inserted external storage device contains expired DivX VOD content.
Select a file that can be played.

Video resolution not supported

The inserted external storage device contains a high definition DivX/MPEG-1/MPEG-2/MPEG-4 file.
Select a file that can be played.

It is not possible to write it in the flash.

This unit's flash memory used as the temporary storage area is full.
Select a file that can be played.

Your device is not authorized to play this DivX protected video.

This unit's DivX registration code has not been authorized by the DivX VOD contents provider.
Register this unit to the DivX VOD contents provider.

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.

Video frame rate not supported

DivX file's frame rate is more than 30 fps.
Select a file that can be played.

Audio Format not supported

This type of file is not supported on this unit.
Select a file that can be played.

Creating the Database has failed.

The mode was switched to video or JPEG image display while the database was being created.
Create the database again. (Page 26)

Additional information

Memory full. Tags not stored. Connect iPod.

This unit's flash memory used as the temporary storage area is full.

The tag information on this unit is transferred to the iPod automatically when an iPod is connected.

Tag transfer failed. Reconnect your iPod.

This unit's tag information cannot transfer to the iPod.

Check the iPod and try again.

Tag store failed.

Tag information cannot be stored in this unit.
Try again.

Error-8D

Built-in FLASH ROM encountered an error.
Turn the ignition OFF or ON.

Already stored

This tag information is already stored in memory.
Tag information can only be saved once for any given song. Tag information cannot be saved for the same song more than once.

Bluetooth

Error-10

The power failed for the Bluetooth module of this unit.

Turn the ignition switch OFF and then to ACC or ON.

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

Pandora®

Error-19

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

Start up the Pandora Application from your Device.

The Pandora application has not started running yet.
Start up the Pandora application from your iPhone.

Unable to save thumb rating. Try again later.

Unable to save thumb rating.
Try again later.

Unable to save Bookmark. Try again later.

Unable to save Bookmark.
Try again later.

Pandora system maintenance. Try again later.

Pandora system is undergoing maintenance.
Try again later.

Skip limit reached.

Skip limit reached.
Do not exceed the skip limit.

This version of the Pandora Application is not supported.

This version of the Pandora application is not supported.

Connect an iPhone that has a compatible version of the Pandora application installed.

Check Device

Device error message displayed in the Pandora application.
Please check your iPhone.

Additional information

Pandora is unable to play music. Please see your Device.

Unable to play music from Pandora.
Please check your iPhone.

Please create station. Application on Device.

No station found.
Create a station in the Pandora application on your iPhone.

No Active Station

No station selected.
Select a station.

Communication error occurred. Please reconnect your device.

If there is no ACK after 10 attempted retries at 750 ms, the accessory should assume that communication is interrupted and disconnect from PandoraLink.
Please reconnect your iPhone and try again.

Device has not been registered. Go to "Bluetooth Connection Menu" to register.

No Bluetooth device found.
Follow the instructions that appear on the screen.

Connection failed. Press "Connect" to retry.

Bluetooth connection failed.
Follow the instructions that appear on the screen.

Disconnected. Press "Connect" to reconnect the device.

Bluetooth connection lost.
Follow the instructions that appear on the screen.

Additional information

- Turn the ignition switch OFF and then to ACC or ON.

If the error message is still displayed after performing the above action, reset the smartphone.

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

Launching the application failed.

Failed to launch the application.

- Disconnect the cable from the smartphone, and then connect the smartphone again after a few seconds.
- Turn the ignition switch OFF and then to ACC or ON.

If the error message is still displayed after performing the above action, reset the smartphone.

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

USB connection was temporarily disabled for device protection. Do not connect this USB device to the unit. To restart USB, restart the unit.

There is an over current error. Do not use this USB storage device.

Turn the ignition switch OFF and then to ACC or ON.

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

Understanding auto EQ error messages

When correct measurement of the car's interior acoustic characteristics is not possible using auto EQ, an error message may appear on the display. In such cases, refer to the table below to see what the problem is and how it may be corrected. After checking, try again.

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

Please connect the microphone for measurement. When finished, please push HOME key.

The microphone is not connected.
Plug the optional microphone securely into the jack.

Error. Please check xxxx speaker.

The microphone cannot pick up the measuring tone of a speaker.

- Confirm that the speakers are connected correctly.
- Correct the input level setting of the power amp connected to the speakers.
- Plug the microphone securely into the jack.

Error. Please check noise.

The surrounding noise level is too high.

- Stop your car in a place that is quiet, and switch off the engine, air conditioner and heater.
- Set the microphone correctly.

Error. Please check battery.

Power is not being supplied from the battery to this unit.

- Connect the battery correctly.
- Check the battery voltage.

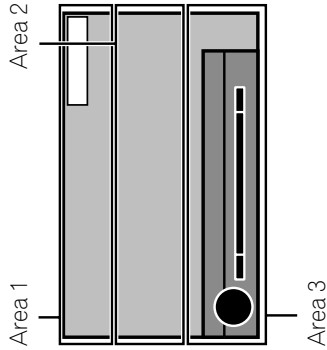
Additional information

Additional information

Understanding messages

Messages	Translation
Screen image may appear reversed.	Pioneer recommends the use of a camera which outputs mirrored images. Otherwise, the screen image will appear reversed.

Indicator list



Area 1

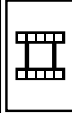
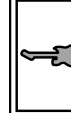
 MUTE	Indicates that the mute function is on.
 ATT	Indicates that the sound is attenuated.

Area 2

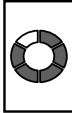
	Shows when downloadable song information (tag) from a radio station is received. Disabled while song information (tag) from an HD Radio station is being saved to this unit.
Dolby D	Indicates that the digital format is Dolby Digital.
MPEG-A	Indicates that the digital format is MPEG Audio.

LPCM	Indicates that the digital format is Linear PCM.		Indicates that the connected Bluetooth device only supports Bluetooth audio.
48k16	Indicates the sampling frequency.		Show the album title when receiving the tag information. Shows the album title of the song currently being played for MP3/WMA/AAC/WAV files.
DTS	Indicates that the digital format is DTS.		Shows the song title when receiving the tag information. Shows the song title of the song currently being played for MP3/WMA/AAC/WAV files.
1 ch	Indicates the audio channel.		Shows the comment currently being played.
1+1ch			Shows the station name currently tuned in to.
2 ch			Shows the artist name when receiving the tag information. Shows the artist name of the artist currently being played for MP3/WMA/AAC/WAV files.
Multi ch			Shows cellular phone information.
PBCOn	Indicates that a disc with PBC On is being played.		Shows general phone information.
	- Indicates that a cellular phone is connected. - Indicates that an incoming call has been received and has not been checked yet.		Shows home phone information.
	Indicates the battery strength of the cellular phone. - The level shown on the indicator may differ from the actual battery strength. - If the battery strength is not available, nothing is displayed in the battery strength indicator area.		Shows office phone information.
	Indicates that the connected Bluetooth device only supports Bluetooth telephone.		Shows other phone information.

Additional information

	Shows the composer name.
	Shows the category name.
	Shows the folder name of the folder containing the MP3/WMA/AAC file currently being played.
	Shows the file name of the MP3/WMA/AAC file currently being played.
P.CH	Shows the preset number of the station currently being tuned in to.
CH	Shows the channel currently being tuned in to.
i	Shows SiriusXM information.
	Shows the title number currently being played.
	Shows the chapter number currently being played.
	Shows the replay time currently being played.
	Shows when the game alert function is on while receiving SiriusXM stations.
	Shows the genre of the track/song currently being played.

Area 3

Vol	Indicates that the volume is adjusted.
	Shows when radio signal is received.
ANALOG	Shows when analog audio of HD Radio signal is received.
DIGITAL	Shows when digital audio of HD Radio signal is received.
HD	Shows when HD Radio station information is received.
BSM	Touch to turn BSM on.
Auto EQ	Indicates that Auto EQ is on.
	Shows when this unit has the song information (tag).
	Indicates that the unit is currently processing an operation such as search.
DB	Shows when creating the database in Music browse mode.
	Shows when saving the database in Music browse mode.
	Indicates the signal strength of the cellular phone.
	Indicates that a Bluetooth telephone is connected.

Additional information

Handling guidelines

Discs and player

Use discs featuring any of the following logos.



Use 12-cm discs.

The following types of discs cannot be used with this unit:

- DualDiscs
- 8-cm discs: Attempts to use such discs with an adapter may cause the unit to malfunction.
- Oddly shaped discs 
- Damaged discs, including discs that are cracked, chipped or warped 
- CD-R/RW and DVD-R/RW discs that have not been finalized
- DVD-RAM

Do not touch the recorded surface of the discs.

Store discs in their cases when not in use.

Do not attach labels, write on or apply chemicals to the surface of the discs.

To clean a disc, wipe the disc with a soft cloth outward from the center.

Condensation may temporarily impair the player's performance. Let it rest for about one hour to adjust to a warmer temperature. Also, wipe any damp discs off with a soft cloth.

Playback of discs may not be possible because of disc characteristics, disc format, recorded application, playback environment, storage conditions, and so on.

Road shocks may interrupt disc playback.

Certain functions may not be available for some DVD video discs.

It may not be possible to play back some DVD video discs.

This unit is not compatible with discs recorded in AVCHD (Advanced Video Codec High Definition) format. Do not insert AVCHD discs as you may not be able to eject the disc.

When using discs that can be printed on label surfaces, check the instructions and the warnings of the discs. Depending on the discs, inserting and ejecting may not be possible. Using such discs may result in damage to this equipment.

Do not attach commercially available labels or other materials to the discs.

- The discs may warp making the disc unplayable.
- The labels may come off during playback and prevent ejection of the discs, which may result in damage to the equipment.

USB storage device

Depending on the external storage device (USB), the following problems may occur.

- Operations may vary.
- The storage device may not be recognized.
- Files may not be played back properly.

Connections via USB hub are not supported.

Additional information

Do not connect anything other than a USB storage device.

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 device may cause noise to occur in the radio.

Copyright protected files that are stored in the USB devices cannot be played back.

You cannot connect a USB portable audio player/USB memory to this unit via USB hub.

Partitioned USB memory is not compatible with this unit.

Depending on the kind of USB portable audio player/USB memory you use, the device may not be recognized or audio files may not be played back properly.

Do not leave the USB portable audio player/USB memory in direct sunlight for extended amounts of time. Doing so may cause the device to malfunction from the extreme rise in temperature.

iPod

To ensure proper operation, connect the dock connector cable from the iPod directly to this unit.

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.

Additional information

Playback of CD-R/RW discs may become impossible in case of direct exposure to sunlight, high temperatures, or the storage conditions in the vehicle.

Titles and other text information recorded on a CD-R/RW disc may not be displayed by this unit (in the case of audio data (CD-DA)).

JPEG picture files

JPEG is short for Joint Photographic Experts Group and refers to a still image compression technology standard.

Files are compatible with Baseline JPEG and EXIF 2.1 still images up to a resolution of 8192×7680 . (EXIF format is used most commonly with digital still cameras.)

Playback of EXIF format files that were processed by a computer may not be possible.

There is no progressive JPEG compatibility.

DivX video files

Depending on the composition of the file information, such as the number of audio streams or file size, there may be a slight delay when playing back discs.

Some special operations may be prohibited due to the composition of the DivX files.

Only DivX files downloaded from a DivX partner site are guarantee for proper operation. Unauthorized DivX files may not operate properly.

DRM rental files cannot be operated until playback is started.

Recommended file size: 2 GB or less with a transmission rate of 2 Mbps or less.

The ID code of this unit must be registered to a DivX VOD provider in order to playback DivX VOD files. For information on ID codes, refer to *Displaying the DivX® VOD registration code* on page 39.

For more details about DivX, visit the following site:
<http://www.divx.com/>

MPEG-1/MPEG-2/MPEG-4 video files

Elapsed playback time may not be displayed correctly.

Important

- When naming a JPEG image file, add the corresponding file name extension (.jpg, .jpeg or .jpe).
- This unit plays back files with these file name extensions (.jpg, .jpeg or .jpe) as a JPEG image file. To prevent malfunctions, do not use these extensions for files other than JPEG image files.

Audio compatibility (USB)

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)

Additional information

Compressed file compatibility (disc, USB)

WMA

File extension: .wma
Bit rate: 48 kbps to 320 kbps (CBR), VBR
Sampling frequency: 32 kHz to 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

AAC

Compatible format: AAC encoded by iTunes
File extension: .m4a
Sampling frequency: 11.025 kHz to 48 kHz
Bit rate: 16 kbps to 320 kbps
Apple Lossless: Not compatible
AAC file bought from the iTunes Store (.m4p file extension): Not compatible

DivX compatibility

Compatible format: DivX video format implemented in relation to DivX standards
File extensions: .avi or .divx
DivX Ultra format: Not compatible
DivX HD format: Not compatible
DivX files without video data: Not compatible
DivX plus: Not compatible
Compatible audio codec: MP2, MP3, Dolby Digital
LPCM: Compatible
Bit rate: 8 kbps to 320 kbps (CBR), VBR
Sampling frequency: 8 kHz to 48 kHz
Compatible external subtitle file extension: .srt

MPEG-1/MPEG-2/MPEG-4 video

File extensions: .mpg or .mpeg (MPEG-1/MPEG-2), .avi (MPEG-4)
Compatible audio codec: MP2 (MPEG-1/MPEG-2), MP2, MP3, Dolby Digital (MPEG-4)
H.264 (MPEG-4AVC): Not compatible
LPCM: Not compatible
Bit rate: 8 kbps to 320 kbps (CBR), VBR
Sampling frequency: 8 kHz to 48 kHz

Additional information

Supplemental information

Some characters in a file name (including the file extension) or a folder name may not be displayed.

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.

Disc (CD/DVD)

Playable folders: up to 99 for CD-R/RW
Playable folders: up to 700 for DVD-R/RW
Playable files: up to 999 for CD-R/RW
Playable files: up to 3500 for DVD-R/RW
File system: ISO 9660 Level 1 and 2, Romeo, Joliet, UDF 1.02 (DVD-R/RW)
Multi-session playback: Compatible

Packet write data transfer: Not compatible

Regardless of the length of blank sections between the songs from the original recording, compressed audio discs play with a short pause between songs.

External storage device (USB)

Playable folders: up to 1500 (up to 700 for DivX/MPEG-1/MPEG-2/MPEG-4)
Playable files: up to 15 000
Playback of copyright-protected files: Not compatible

Partitioned external storage device (USB): Only the first playable partition can be played.

There is no compatibility for Multi Media Cards (MMC).

CAUTION

- Pioneer accepts no responsibility for data lost on the USB memory/USB portable audio player even if that data is lost while using this unit.
- 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 the discs/external storage device (USB) or iPod in places with 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)
- iPhone 5
- iPhone 4S
- iPhone 4

Additional information

- iPhone 3GS
- iPhone 3G
- iPod nano

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.

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

Audiobook, Podcast: Compatible

Additional information

- 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 that contains the files to the external storage device (USB).

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.

Using the display correctly

CAUTION

- If liquid or foreign matter should get inside this unit, turn off the power immediately and consult your dealer or the nearest authorized PIONEER Service Station. Do not use the unit in this condition because doing so may result in fire, electric shock, or other failure.
- If you notice smoke, a strange noise or smell, or any other abnormal signs from the display, turn off the power immediately and consult your dealer or the nearest authorized PIONEER Service Station. Using this unit in this condition may result in permanent damage to the system.
- Do not disassemble or modify this unit, as there are high-voltage components inside which may cause electric shock. Be sure to consult your dealer or the nearest authorized PIONEER Service Station for internal inspection, adjustments, or repairs.

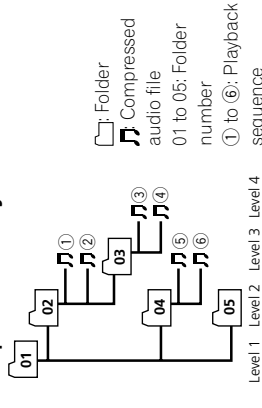
Handling the display

- Never touch the screen with anything besides your finger when operating the touch panel function. The screen can scratch easily.

Sequence of audio files

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

Example of a hierarchy



Disc

Folder selection sequence or other operation may differ depending on the encoding or writing software.

External storage device (USB)

The playback sequence is the same as the recorded sequence in the external storage device (USB).

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

- When the display is subjected to direct sunlight for a long period of time, it will become very hot resulting in possible damage to the LCD screen. You should avoid exposing the display unit to direct sunlight as much as possible.
- The display should be used within the temperature range of 14°F to 140°F. At temperatures higher or lower than this operating temperature range, the display may not operate normally.
- The LCD screen is exposed in order to increase its visibility within the vehicle. Do not press it strongly on it as this may damage it.
- Do not push the LCD screen forcefully as this may scratch it.

Liquid crystal display (LCD) screen

- Heat from the heater may damage the LCD screen, and cool air from the cooler may cause moisture to form inside the display resulting in possible damage.
- Small black dots or white dots (bright dots) may appear on the LCD screen. These are due to the characteristics of the LCD screen and do not indicate a malfunction.
- When using a cellular phone, keep the antenna away from the display to prevent disruption of the video image by the appearance of spots, colored stripes, etc.

LED (light-emitting diode) backlight

- At low temperatures, using the LED backlight may increase image lag and degrade the image quality due to the characteristics of the LCD screen. Image quality will improve with an increase in temperature.
- To protect the LED backlight, the display will darken in the following environments:
 - In the direct sunlight
 - Near the heater vent

Additional information

- The product lifetime of the LED backlight is more than 10 000 hours. However, it may decrease if used in high temperatures.
- If the LED backlight reaches the end of its product lifetime, the screen will become dark and the image will no longer be projected. In such cases, please consult your dealer or the nearest authorized PIONEER Service Station.

Keeping the display in good condition

- When removing dust from the screen or cleaning the display, first turn the system power off, then wipe with a soft dry cloth.
- When wiping the screen, take care not to scratch the surface. Do not use harsh or abrasive chemical cleaners.

Bluetooth profiles

In order to use Bluetooth wireless technology, devices must be able to interpret certain profiles. This unit is compatible with the following profiles.

- GAP (Generic Access Profile)
- SDP (Service Discovery Protocol)
- OPP (Object Push Profile)
- HFP (Hands Free Profile)
- HSP (Head Set Profile)
- PBAP (Phone Book Access Profile)
- A2DP (Advanced Audio Distribution Profile)
- AVRCP (Audio/Video Remote Control Profile) 1.3
- SPP (Serial Port Profile) 1.1

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Glenn Randers-Pehrson

glennrp at users.sourceforge.net

January 6, 2011

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Additional information

Additional information

Language code chart for DVD

Language (code), input code	
Japanese (ja), 1001	Kinyarwanda (rw), 1823
English (en), 0514	Sanskrit (sa), 1901
French (fr), 0618	Sardinian (sc), 1903
Spanish (es), 0519	Sindhi (sd), 1904
German (de), 0405	Northern Sami (se), 1905
Italian (it), 0920	Sango (sg), 1907
Chinese (zh), 2608	Sinhala (si), 1909
Dutch, Flemish (nl), 1412	Slovak (sk), 1911
Portuguese (pt), 1620	Slovenian (sl), 1912
Swedish (sv), 1922	Samoan (sm), 1913
Russian (ru), 1821	Shona (sn), 1914
Korean (ko), 1115	Somali (so), 1915
Greek (el), 0512	Albanian (sq), 1917
Afar (aa), 0101	Serbian (sr), 1918
Abkhazian (ab), 0102	Swati (ss), 1919
Avestan (ae), 0105	Sotho, Southern (st), 1920
Afrikaans (af), 0106	Sundanese (su), 1921
Akan (ak), 0111	Swahili (sw), 1923
Amharic (am), 0113	Tamil (ta), 2001
Aragonese (ar), 0114	Telugu (te), 2005
Arabic (ar), 0118	Tajik (tg), 2007
Assamese (as), 0119	Thai (th), 2008
Avaric (av), 0122	Tigrinya (ti), 2009
Aymara (ay), 0125	Turkmen (tk), 2011
Azerbaijani (az), 0126	Tagalog (tl), 2012
Bashkir (ba), 0201	Tswana (tn), 2014
Belarusian (be), 0205	Tonga (to), 2015
Bulgarian (bg), 0207	Turkish (tr), 2018
Bihari (bh), 0208	Tsonga (ts), 2019
Bislama (bi), 0209	Tatar (tt), 2020
Bambara (bm), 0213	Twi (tw), 2023

Language (code), input code

Bengali (bn), 0214	Inupiaq (ik), 0911	Navajo, Navaho (nv), 1422	Tahitian (ty), 2025
Tibetan (bo), 0215	Ido (io), 0915	Chichewa (ny), 1425	Uighur, Uyghur (ug), 2107
Breton (br), 0218	Icelandic (is), 0919	Occitan (oc), 1503	Ukrainian (uk), 2111
Bosnian (bs), 0219	Inuktitut (iu), 0921	Ojibwa (oj), 1510	Urdu (ur), 2118
Catalan (ca), 0301	Javanese (jv), 1022	Oromo (om), 1513	Uzbek (uz), 2126
Chechen (ce), 0305	Georgian (ka), 1101	Oriya (or), 1518	Venda (ve), 2205
Chamorro (ch), 0308	Kongo (kg), 1107	Osetian (os), 1519	Vietnamese (vi), 2209
Corsican (co), 0315	Kikuyu, Gikuyu (ki), 1109	Panjabi, Punjabi (pa), 1601	Volapük (vo), 2215
Cree (cr), 0318	Kuanyama (kj), 1110	Pali (pi), 1609	Walloon (wa), 2301
Czech (cs), 0319	Kazakh (kk), 1111	Polish (pl), 1612	Wolof (wo), 2315
Church Slavc (cu), 0321	Kalaallisut (kl), 1112	Pashto, Pushto (ps), 1619	Xhosa (xh), 2408
Chuvash (cv), 0322	Central Khmer (km), 1113	Quechua (qu), 1721	Yiddish (yi), 2509
Welsh (cy), 0325	Kannada (kn), 1114	Romansh (rm), 1813	Yoruba (yo), 2515
Danish (da), 0401	Kanuri (kr), 1118	Rundi (rn), 1814	Zhuang, Chuang (za), 2601
Divehi (dv), 0422	Kashmiri (ks), 1119	Romanian (ro), 1815	Zulu (zu), 2621

Additional information

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):	
D	178 mm × 100 mm × 165 mm (7 in. × 3-7/8 in. × 6-1/2 in.)
Chassis	171 mm × 97 mm × 18 mm (6-3/4 in. × 3-7/8 in. × 3/4 in.)
Nose	(AVH-X5600BHS/AVH-X4600BT)
Nose	171 mm × 97 mm × 9 mm (6-3/4 in. × 3-7/8 in. × 3/8 in.)
Nose	(AVH-X3600BHS/AVH-X2600BT/AVH-X1600DVD)
Weight	2.0 kg (4.4 lbs)
Weight	(AVH-X5600BHS/AVH-X4600BT)
Weight	1.7 kg (3.7 lbs)
Weight	(AVH-X3600BHS/AVH-X2600BT/AVH-X1600DVD)

Display

Screen size/aspect ratio ...	6.95 inch wide/16:9 (effective display area: 156.6 mm × 81.6 mm)
(AVH-X5600BHS/AVH-X4600BT)	
Screen size/aspect ratio ...	6.1 inch wide/16:9 (effective display area: 136.2 mm × 72.0 mm)
(AVH-X3600BHS/AVH-X2600BT/AVH-X1600DVD)	
Pixels	1 152 000 (2 400 × 480)
Display method	TFT active matrix, driving type
Color system	NTSC/PAL/M/PAL-N/SECAM compatible
Durable temperature range (power off)	–4 °F to +176 °F

Audio

Maximum power output	50 W × 4
Continuous power output	70 W × 1/2 Ω (for subwoofer)
.....	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	4.0 V
(AVH-X5600BHS/AVH-X4600BT)	
Preout maximum output level	2.0 V
(AVH-X3600BHS/AVH-X2600BT/AVH-X1600DVD)	
Equalizer (8-Band Graphic Equalizer):	
Frequency	40 Hz/80 Hz/200 Hz/400 Hz/1 kHz/2.5 kHz/8 kHz/10 kHz
Gain	±12 dB
H-PF:	50 Hz/63 Hz/80 Hz/100 Hz/125 Hz
Slope	–12 dB/oct
Subwoofer (mono):	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/125 Hz
Slope	–18 dB/oct
Gain	+6 dB to –24 dB
Phase	Normal/Reverse
Bass boost:	
Gain	+12 dB to 0 dB

DVD Player

System	DVD video, Video CD, CD, WMA, MP3, AAC, DivX, MPEG player
Usable discs	DVD video, Video CD, CD, CD-R/RW, DVD-R/RW/RDL
Region number	1
Frequency response	5 Hz to 44 000 Hz (with DVD, at sampling frequency 96 kHz)
Signal-to-noise ratio	96 dB (1 kHz) (IHF-A network) (RCA level)
(AVH-X5600BHS/AVH-X4600BT)	
Signal-to-noise ratio	91 dB (1 kHz) (IHF-A network) (RCA level)
(AVH-X3600BHS/AVH-X2600BT/AVH-X1600DVD)	
Output level:	
Video	1.0 Vp-p/75 Ω (±0.2 V)
Number of channels	2 (stereo)
MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio)
AAC decoding format	MPEG-4 AAC (iTunes encoded only) (m4a)
(Ver. 10.6 and earlier)	

DivX decoding format	Home Theater Ver. 3, 4, 5.2, 6 (Except ultra and HD) (avi, .divx)
MPEG video decoding format	MPEG1, MPEG2, MPEG4 (part2), MS-MPEG4 (ver. 3)

USB

USB standard specification	USB 1.1, USB 2.0 full speed (for video files)
USB 2.0 high speed (for audio files)	
Maximum current supply	1.0 A
USB Class	MSC (Mass Storage Class), MTP (Media Transfer Protocol)
File system	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)	
AAC decoding format	MPEG-4 AAC (iTunes encoded only)
(Ver. 10.6 and earlier)	

WAV (MSC Mode only):

WAV signal format

Sampling Frequency

24 kHz, 32 kHz, 44.1 kHz, 48 kHz

MS ADPCM: 22.05 kHz, 44.1 kHz

JPEG (MSC Mode only):

JPEG decoding format

Pixel Sampling

Decode Size

DivX decoding format (MSC Mode only)

.....

MPEG video decoding format (MSC Mode only)

.....

MPEG1, MPEG2, MPEG4 (part2), MS-MPEG4 (ver. 3)

FM tuner

Frequency range

Usable sensitivity	9 dB (0.8 μV/75 Ω, mono, S/N: 30 dB)
Signal-to-noise ratio	80 dB (digital broadcasting) (IHF-A network)
(AVH-X5600BHS/AVH-X3600BHS)	
Signal-to-noise ratio	72 dB (analog broadcasting) (IHF-A network)

AM tuner

Frequency range	530 kHz to 1 710 kHz (10 kHz)
Usable sensitivity	25 μV (S/N: 20 dB)
Signal-to-noise ratio	80 dB (digital broadcasting) (IHF-A network)
(AVH-X5600BHS/AVH-X3600BHS)	
Signal-to-noise ratio	62 dB (analog broadcasting) (IHF-A network)

Bluetooth

(AVH-X5600BHS/AVH-X4600BT/AVH-X3600BHS/AVH-X2600BT)	
Version	Bluetooth 3.0 certified
Output power	+4 dBm Maximum (Power class 2)

CEA2006 Specifications



Power output	14 W RMS × 4 Channels (4 Ω and ≤ 1 % THD+N)
S/N ratio	91 dBa (reference: 1 W into 4 Ω)

Note

Specifications and the design are subject to modifications without notice.