Take the time to read through this instruction manual.
Familiarity with installation and operation procedures will help you obtain the best performance from your new GPS Navigation System.

For your records
Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on the product.
Model DDX9904S/ DDX9704S/ DMX7704S  Serial number

US Residence Only
Register Online
Register your KENWOOD product at www.kenwoodusa.com

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## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Before Use</strong></td>
<td>4</td>
</tr>
<tr>
<td>Precautions</td>
<td>4</td>
</tr>
<tr>
<td>How to read this manual</td>
<td>5</td>
</tr>
<tr>
<td><strong>Basic Operations</strong></td>
<td>6</td>
</tr>
<tr>
<td>Functions of the Buttons on the Front Panel</td>
<td>6</td>
</tr>
<tr>
<td>Turning on the Unit</td>
<td>7</td>
</tr>
<tr>
<td>Initial Settings</td>
<td>8</td>
</tr>
<tr>
<td>Adjusting the volume</td>
<td>9</td>
</tr>
<tr>
<td>Monitor Angle Control</td>
<td>9</td>
</tr>
<tr>
<td>Touch screen operations</td>
<td>10</td>
</tr>
<tr>
<td>HOME screen descriptions</td>
<td>10</td>
</tr>
<tr>
<td>Source selection screen descriptions</td>
<td>11</td>
</tr>
<tr>
<td>Source control screen descriptions</td>
<td>13</td>
</tr>
<tr>
<td>Popup menu</td>
<td>14</td>
</tr>
<tr>
<td>List screen</td>
<td>14</td>
</tr>
<tr>
<td><strong>Disc</strong></td>
<td>15</td>
</tr>
<tr>
<td>Playing a disc</td>
<td>15</td>
</tr>
<tr>
<td>DVD/ VCD Basic Operation</td>
<td>15</td>
</tr>
<tr>
<td>Music CD/ Disc media Basic Operation</td>
<td>17</td>
</tr>
<tr>
<td>Search Operation</td>
<td>18</td>
</tr>
<tr>
<td>DVD Disc Menu Operation</td>
<td>19</td>
</tr>
<tr>
<td>DVD Setup</td>
<td>20</td>
</tr>
<tr>
<td><strong>USB</strong></td>
<td>21</td>
</tr>
<tr>
<td>Connecting a USB device</td>
<td>21</td>
</tr>
<tr>
<td>USB Basic Operation</td>
<td>21</td>
</tr>
<tr>
<td>Search Operation</td>
<td>23</td>
</tr>
<tr>
<td><strong>iPod/iPhone</strong></td>
<td>24</td>
</tr>
<tr>
<td>Preparation</td>
<td>24</td>
</tr>
<tr>
<td>iPod/iPhone Basic Operation</td>
<td>25</td>
</tr>
<tr>
<td>Search Operation</td>
<td>26</td>
</tr>
<tr>
<td><strong>APPS—Android Auto™/ Apple CarPlay</strong></td>
<td>27</td>
</tr>
<tr>
<td>Apple CarPlay Operation</td>
<td>27</td>
</tr>
<tr>
<td>Android Auto™ Operation</td>
<td>28</td>
</tr>
<tr>
<td>Pandora® Operation</td>
<td>30</td>
</tr>
<tr>
<td>Spotify Operation</td>
<td>32</td>
</tr>
<tr>
<td><strong>HD Radio™ Tuner</strong></td>
<td>34</td>
</tr>
<tr>
<td>HD Radio Tuner Basic Operation</td>
<td>34</td>
</tr>
<tr>
<td>Receive Mode</td>
<td>36</td>
</tr>
<tr>
<td>Memory Operation</td>
<td>36</td>
</tr>
<tr>
<td>Selecting Operation</td>
<td>37</td>
</tr>
<tr>
<td>Bookmark</td>
<td>38</td>
</tr>
<tr>
<td>Alert Message</td>
<td>40</td>
</tr>
<tr>
<td><strong>SiriusXM®</strong></td>
<td>41</td>
</tr>
<tr>
<td>SiriusXM® Basic Operation</td>
<td>41</td>
</tr>
<tr>
<td>Storing Channels in Preset Memory</td>
<td>43</td>
</tr>
<tr>
<td>Preset select</td>
<td>43</td>
</tr>
<tr>
<td>Direct search</td>
<td>44</td>
</tr>
<tr>
<td>Category/Channel search</td>
<td>44</td>
</tr>
<tr>
<td>Replay</td>
<td>45</td>
</tr>
<tr>
<td>TuneMix™</td>
<td>45</td>
</tr>
<tr>
<td>SmartFavorites, TuneStart™</td>
<td>45</td>
</tr>
<tr>
<td>TuneScan™</td>
<td>46</td>
</tr>
<tr>
<td>Traffic &amp; Weather Now™</td>
<td>46</td>
</tr>
<tr>
<td>Content Alerts</td>
<td>47</td>
</tr>
<tr>
<td>SportsFlash™</td>
<td>47</td>
</tr>
<tr>
<td>SiriusXM Setup</td>
<td>48</td>
</tr>
</tbody>
</table>
Before Use

Precautions

⚠️ WARNINGS

- To prevent injury or fire, take the following precautions:
  - To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
  - Do not watch or fix your eyes on the unit’s display when you are driving for any extended period.
  - If you experience problems during installation, consult your KENWOOD dealer.

- Precautions on using this unit
  - When you purchase optional accessories, check with your KENWOOD dealer to make sure that they work with your model and in your area.
  - You can select language to display menus, audio file tags, etc. See User Interface Setup (P.68).
  - The Radio Data System or Radio Broadcast Data System feature won’t work where the service is not supported by any broadcasting station.
  - The unit may not function properly if the connectors between the unit and front panel are dirty. Detach the front panel and clean the connector with a cotton swab gently, being careful not to damage the connector.

- Protecting the monitor
  - To protect the monitor from damage, do not operate the monitor using a ball point pen or similar tool with the sharp tip.

- Cleaning the unit
  - If the faceplate of this unit is stained, wipe it with a dry soft cloth such as a silicon cloth. If the faceplate is stained badly, wipe the stain off with a cloth moistened with neutral cleaner, then wipe it again with a clean soft dry cloth.

  **NOTE**
  - Applying spray cleaner directly to the unit may affect its mechanical parts. Wiping the faceplate with a hard cloth or using a volatile liquid such as thinner or alcohol may scratch the surface or erase screened print.

- Lens fogging
  - When you turn on the car heater in cold weather, dew or condensation may form on the lens in the disc player of the unit. Called lens fogging, this condensation on the lens may not allow discs to play. In such a situation, remove the disc and wait for the condensation to evaporate. If the unit still does not operate normally after a while, consult your KENWOOD dealer.

- Precautions on handling discs
  - Do not touch the recording surface of the disc.
  - Do not stick tape etc. on the disc, or use a disc with tape stuck on it.
  - Do not use disc type accessories.
  - Clean from the center of the disc and move outward.
  - When removing discs from this unit, pull them out horizontally.
  - If the disc center hole or outside rim has burrs, use the disc only after removing the burrs with a ballpoint pen etc.
  - Discs that are not round cannot be used.

- 8-cm (3 inch) discs cannot be used.
- Discs with coloring on the recording surface or discs that are dirty cannot be used.
• This unit can only play the CDs with 

• This unit may not correctly play discs which do not have the mark.
• You cannot play a disc that has not been finalized. (For the finalization process see your writing software, and your recorder instruction manual.)

Before Use

Acquiring GPS signal
The first time you turn on this unit, you must wait while the system acquires satellite signals for the first time. This process could take up to several minutes. Make sure your vehicle is outdoors in an open area away from tall buildings and trees for fastest acquisition. After the system acquires satellites for the first time, it will acquire satellites quickly each time thereafter.

Caution for Smartphone Users
Simultaneously running multiple applications on your smartphone while screen sharing places heavy demand on the microprocessor of the phone, potentially affecting communication and performance.
For best results while pairing with your Kenwood receiver, please be sure to close any unused applications by performing the following steps:
Android operating system example:
• Turn off WiFi in phone settings menu.
• Close all open applications before connecting for in-car use. Hold the <Home> key and select <Close all> to close all open applications.
• Clear RAM Memory of the Android phone before connecting for in-car use. Hold the <Home> key and select <Task Manager> then select <RAM> then select <Clear memory> to clear current memory processes.

How to read this manual
• The screens and panels shown in this manual are examples used to provide clear explanations of the operations. For this reason, they may be different from the actual screens or panels used, or some display patterns may be different.
• Indications language: English indications are used for the purpose of explanation. You can select the indication language from the SETUP menu. See User Interface Setup (P.68).
Basic Operations

Functions of the Buttons on the Front Panel

**DDX9904S/ DDX9704S**

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Motion</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Remote Sensor</td>
<td>• Receives the remote control signal.</td>
</tr>
<tr>
<td>2</td>
<td>▼, ▲ (Volume)</td>
<td>• Adjusts volume.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The volume will go up until 15 when you keep pressing ▲.</td>
</tr>
<tr>
<td>3</td>
<td>CAM</td>
<td>• Switches view camera display on/off. <em>(P.64)</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td>– The camera whose view is displayed first changes according to the &quot;Camera Setup&quot; setting and the shift lever position in the shift gate.</td>
</tr>
<tr>
<td>4</td>
<td>HOME</td>
<td>• Displays the HOME screen <em>(P.10)</em>.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Pressing for 1 second turns the power off. *</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• When the power off, turns the power on. *</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* The function of the button when held varies depending on the &quot;Manual Power OFF&quot; setting. <em>(P.69)</em></td>
</tr>
<tr>
<td>5</td>
<td>MENU</td>
<td>• Displays the popup menu screen.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Pressing for 1 second switches attenuation of the volume on/off. <em>(DDX9904S/ DDX9704S only)</em></td>
</tr>
<tr>
<td>6</td>
<td>∆</td>
<td>• Displays the APP (CarPlay/ Android Auto) screen.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Pressing for 1 second displays the Voice Recognition screen <em>(P.60)</em></td>
</tr>
</tbody>
</table>

**DMX7704S**

*NOTE*

• The panels shown in this guide are examples used to provide clear explanations of the operations. For this reason, they may be different from the actual panels.
### Basic Operations

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Motion</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>▲</td>
<td>• Displays the Angle Adjust screen.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <strong>DISC EJECT</strong>: Ejects the disc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• When the panel is opened, pressing closes the panel.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• To forcibly eject the disc, press it for 2 seconds and touch <strong>Yes</strong> after the message is displayed.</td>
</tr>
<tr>
<td>8</td>
<td>Disc insert slot</td>
<td>• A slot to insert a disc media.</td>
</tr>
<tr>
<td>9</td>
<td>ATT</td>
<td>• Switches attenuation of the volume on/off.</td>
</tr>
</tbody>
</table>

### Turning on the Unit

The method of turning on is different depending on the model.

1. **Press the HOME button.**

   ![Image of the unit turned on]

   ➤ The unit is turned on.

- **To turn off the unit:**

1. **Press the HOME button for 1 second.**

**NOTE**

- If it is your first time turning the unit on after installation, it will be necessary to perform Initial setup **(P.8)**.
- The function of the button when held varies depending on the “Manual Power OFF” setting. **(P.69)**
Initial Settings

Initial setup
Perform this setup when you use this unit first time.

1 Set each item as follows.

- **Language**
  Select the language used for the control screen and setting items. Default is "American English (en)".
  ① Touch **Language**.
  ② Touch **Language Select**.
  ③ Select the desired language.
  ④ Touch 
  For detailed operation, see **User Interface Setup (P.68)**.

- **Clock**
  Sets the synchronization of the clock and adjusts it.
  For detailed operation, see **Calendar/clock settings (P.9)**.

- **Display**
  Set the button illumination color.
  If it is hard to see the image on the screen even after adjusting the front panel angle, adjust the viewing angle.
  ① Touch **Display**.
  ② Touch **Key Color**.
  ③ Select the desired color.
  ④ Touch 
  ⑤ Touch **Viewing Angle**.
  ⑥ Select an angle
  ⑦ Touch 
  For detailed operation, see **Display Setup (P.69)**.

- **Camera**
  Set the parameters for the camera.
  ① Touch **Camera**.
  ② Set each item and touch 
  For detailed operation, see **Camera Setup (P.64)**.

- **OEM SETUP**
  This function requires a commercial adaptor. Consult your KENWOOD dealer for details.

- **DEMO**
  Set the demonstration mode. Default is "ON".
  ① Touch **DEMO** and set ON or OFF.

2 Touch **Finish**.

**NOTE**
- These settings can be set from the SETUP menu. See **Setting Up (P.67)**.
Calendar/clock settings

1 Press the MENU button.
   - Popup menu appears.

2 Touch SETUP.
   - SETUP Menu screen appears.

3 Touch User Interface.
   - User Interface screen appears.

4 Set each item as follows.
   Scroll the page to show the item.

- Clock
  GPS-SYNC (Default): Synchronizes the clock time with the GPS.
  Manual: Sets the clock manually.

- Time Zone
  Select the time zone.

- Clock Adjust
  If you select Manual for Clock, adjust the date and time manually. (P.68)

Adjusting the volume

To adjust the volume (0 to 40),
Press ▲ to increase, and press ▼ to decrease.
Holding ▲ increases the volume continuously to level 15.

Monitor Angle Control
(DDX9904S/ DDX9704S)

You can adjust the position of the monitor.

1 Press the ▲ button.
   - Angle Adjust screen appears.

2 Select a below number that represents your desired angle setting.
   Default is “0”.

- Off Position
  You can store the current monitor angle as the angle during power off. Touch Memory when the desired angle is selected.
Basic Operations

Touch screen operations

To perform operations on the screen, you need to touch, touch and hold, flick or swipe to select an item, display setting menu screen or to change the page, etc.

- **Touch**
  Touch the screen gently to select an item on the screen.

- **Touch and hold**
  Touch the screen and keep your finger in place until the display changes or a message is displayed.

- **Flick**
  Slide your finger quickly to the left or right on the screen to change the page. You can scroll the list screen by flicking the screen up/down.

- **Swipe**
  Slide your finger up or down on the screen to scroll the screen.

HOME screen descriptions

Most functions can be performed from the HOME screen.

1. Displays the control screen of current source.
2. Widget
   - You can change the widget by touching \( \text{[} \) / \( \text{]} \) or flicking left or right on the widget area.
   - Touch the widget to display the detailed screen.
3. Page indication for widgets
4. Current source information
5. Displays the source selection screen. \( P.11 \)
6. Short-cut playback source icons \( P.12 \)
7. Displays the Hands Free screen. \( P.59 \)
   - When connecting as Apple CarPlay or Android Auto, it works as a phone provided in Apple CarPlay or Android Auto.

Display the HOME

1. Press the HOME button.

   ➤ HOME screen appears.
Source selection screen descriptions

You can display all playback sources and options on the source selection screen.

1. Changes the playback source. For playback sources, see P.11.
2. Changes the page. (Touch \( \text{Home} \) / \( \text{Back} \).) You can also change the page by flicking left or right on the screen.
3. Returns to previous screen.
4. Page indication
5. Displays the SETUP Menu screen. (P.67)

Select the playback source

1. Touch \( \text{Home} \) on the HOME screen.
   From the screen, you can select the following sources and functions.

   - Switches to the Android Auto/Apple Car Play screen from the connected iPod touch/iPhone/Android device.*1 (P.27)
   - Switches to the HD Radio broadcast. (P.34)
   - Switches to the SiriusXM® satellite radio broadcast. (P.41)
   - Plays a Bluetooth audio player. (P.53)
   - Plays a disc.*2 (P.15)

   - Plays an iPod/iPhone. (P.24)
   - Plays files on a USB device. (P.21)
   - Switches to the Pandora. (P.30)
   - Switches to the Spotify. (P.32)
   - Switches to an external component connected to the AV-IN input terminal. (P.66)
   - Displays the Audio screen. (P.72)
   - Puts the unit in standby. (P.12)

*1 When iPhone compatible with CarPlay is connected, Apple CarPlay is displayed. When an Android device compatible with Android Auto is connected, Android Auto is displayed.
*2 DDX9904S/DDX9704S only
   - For sources and information displayed when an ADS adapter is connected, see OEM Features Operation (P.66).
Basic Operations

**To select the playback source on the HOME screen**

The 3 items displayed on the source selection screen as the large icons are shown on the HOME screen.
You can change items displayed on this area by customizing the source selection screen. *(P.12)*

**To select the playback source on the source control screen**

Display source selection buttons by touching or flicking left or right on the source control screen, then select a playback source.

---

**Put the unit in standby**

1. Touch on the HOME screen.
2. Touch **STANDBY**.

**Customize Short-cut buttons on HOME screen**

You can arrange the position of the source icons as you like.

1. Touch on the HOME screen.
2. Touch and hold the icon which you want to move to go into the customizing mode.
3. Drag it where you want to move.
Source control screen descriptions

There are some functions which can be operated from most screens.

Indicators

1
Connected Bluetooth device information.
- : Lights up when quick charging battery of the connected iPod/ iPhone/ Smartphone.

2
All sources icon
Displays all sources.

3 Secondary screen

- : The Secondary screen changes every time you touch it. You can also change the Secondary screen by flicking left or right on the screen.
- Indicators: Displays the current source condition and so on.
  - ATT: The attenuator is active.
  - DUAL: The dual zone function is on.
  - MUTE: The mute function is active.
  - LOUD: The loudness control function is on.
- Short-cut buttons: The source changes to the one you have set as a short-cut. For the short-cut setting, refer to Customize Short-cut buttons on HOME screen (P.12).

4 Touch to display the Hands Free screen. (P.59)
When connecting as Apple CarPlay or Android Auto, it works as a phone provided in Apple CarPlay or Android Auto.
Basic Operations

Popup menu

1. Press the MENU button.

- Popup menu appears.

2. Touch to display the popup menu.

The contents of the menu are as follows.

- Displays the Screen Adjustment screen. (P.67)
- Turns the display off. (P.9)
- Displays the view camera. (P.64)
- Displays the SETUP Menu screen. (P.67)
- Displays the Audio Control Menu screen. (P.72)
- Displays the control screen of current source. Icon feature differs depending on the source.
- Close the popup menu.
- See HOME screen descriptions (P.10).

Turn off the screen

1. Select Display OFF on the pop-up menu.

List screen

There are some common function keys in the list screens of most sources.

1. ▼

Displays list type selection window.

2. 

Displays music/movie file list.

3. Text scroll

Scrolls the displayed text.

4. Play etc.

Keys with various functions are displayed here.
- Play: Plays all tracks in the folder containing the current track.
- A-Z: Jump to the letter you entered (alphabet search).
- Top Up: Moves to the upper hierarchy.

5. Page scroll

You can change the page to display more items by pressing ▲ / ▼ / ◀ / ▶.
- ▲ / ◀: Displays the top or bottom page.

6. Return

Returns to previous screen.

NOTE
- Buttons which cannot be activated from the list screen are not displayed.
Disc (DDX9904S/ DDX9704S)

Playing a disc

■ Insert a disc

1 Press the ▲ button.

2 Touch DISC EJECT. The panel opens.

3 Insert the disc into the slot. The panel closes automatically. The unit loads the disc and playback starts.

■ Eject a disc

1 Press the ▲ button.

2 Touch DISC EJECT. When removing a disc, pull it horizontally.

3 Press the ▲ button.

DVD/ VCD Basic Operation

Most functions can be controlled from the source control screen and playback screen.

NOTE
- Set the remote control mode switch to DVD mode before starting operation for DVD and VCD, see Switch the operation mode (P.80).
- The screen shot below is for DVD. It may be different from the one for VCD.

1 When the operation buttons are not displayed on the screen, touch the [7] area.

Control screen

Video screen

1 Information display
Displays the following information.
- Title #, Chapter #: DVD title and chapter number display
- Track #/Scene #: VCD track or scene number display. Scene # is displayed only when Playback control (PBC) is on.
- Linear PCM, etc.: Audio format
- Hide: Hides the control screen.
Disc

- Repeats the current content. Each time you touch the key, repeat mode switches in the following sequence:
  - DVD: Title repeat ( ), Chapter repeat ( ), Repeat off ( )
  - VCD (PBC On): Does not repeat
  - VCD (PBC Off): Track repeat ( ), Repeat off ( )

2 Function panel

Touch on the left side of the screen to display the function panel. Touch again to close the panel. For details on the keys, see Function panel (P.16).

3 Play mode indicator/Playing time

- , , , etc.: Current play mode indicator
  - (play), (fast forward), (fast backward), (stop), (resume stop), (pause), (slow playback), (slow reverse playback).

4 Function bar

- : Searches the previous/next content. Touch and hold to fast forward or fast backward. (It will be cancelled automatically after about 50 seconds.)
- : Plays or pauses.
- : Displays the Graphic Equalizer screen. (P.74)

5 Indicator Items

- IN: A disc is inserted.
  - White: A Disc is inside the unit.
  - Orange: Error at the disc player

- VCD
  - 1chLL/2chLL: Identifies the left audio output of channel 1 or 2.
  - 1chLR/2chLR: Identifies the monaural audio output of channel 1 or 2.
  - 1chRR/2chRR: Identifies the right audio output of channel 1 or 2.
  - 1chST/2chST: Identifies the stereo audio output of channel 1 or 2.
  - LL: Identifies the left audio output.
  - LR: Identifies the monaural audio output.
  - RR: Identifies the right audio output.
  - ST: Identifies the stereo audio output.
  - PBC: The PBC function is on.
  - VER1: The VCD version is 1.
  - VER2: The VCD version is 2.

6 Searching area

Touch to search the next/previous content.

7 Key display area

Touch to display the control screen.

8 MENU CTRL (DVD only)

Touch to display the DVD-VIDEO disc menu control screen. See DVD Disc Menu Operation (P.19).

NOTE

- The control screen disappears when no operation is done for 5 seconds.
- If you use a remote control, you can jump directly to the desired image with entering the chapter number, scene number, play time, etc. (P.80).

Function panel

1 Touch on the left side of the screen.

The functions of each key are as follows.

- Stops playback. When touched twice, the disc is played from the beginning when you play it the next time.

- Fast forward or fast backward. Each time you touch the key, the speed changes; 2 times, 8 times.

- or (DVD only)

Plays in slow motion forward or backward.

SETUP (DVD only)

Touch to display the DVD SETUP screen. See DVD Setup (P.20).

MENU CTRL (DVD only)

Touch to display the DVD-VIDEO disc menu control screen. See DVD Disc Menu Operation (P.19).
PBC (VCD only)
Turn Playback control (PBC) on or off.

Audio (VCD only)
Change the audio output channel.

Music CD/ Disc media Basic Operation

Most functions can be controlled from the source control screen and playback screen.

NOTE
• Set the remote controller mode switch to AUD mode before starting operation for Music CD and audio files, see Switch the operation mode (P.80).
• In this manual, "Music CD" will be referred to as the general CDs which include music tracks in. "Disc media" will be referred to as CD/DVD disc which includes audio or video files.
• The screen shot below is for disc media. It may be different from the one for CD.

Control screen

Content list panel

Function panel (Disc media only)
Touch on the left side of the screen to display the function panel. Touch again to close the panel.

• : Searches previous/next folder.

Content list

Indicator Items
• IN: A disc is inserted.
  White: A Disc is inside the unit.
  Orange: Error at the disc player
• VIDEO: Identifies the video file.
• MUSIC: Identifies the music file.

Artwork (Disc media only)
The jacket of the currently playing file is displayed.
• : Current play mode indicator
  The meanings of each icon are as follows: (play), (fast forward), (fast backward), (pause).

Content list panel
Displays the playing list. When you touch a track/file name on the list, playback will start.
Search Operation
(Disc media only)

You can search music or video files by the following operations.

**NOTE**
- If you use a remote control, you can jump directly to the desired track with entering the track number. For details, see *Direct search mode* (*P.80)*.

**File search**

You can search a file according to hierarchy.

1. Touch Q.  
   - Folder List screen appears.

2. Touch the desired folder.
   - When you touch a folder its contents are displayed.

3. Touch desired item from the content list.  
   - Playback starts.

**NOTE**
- For operations in the list screen, see *List screen* (*P.14)*.
**DVD Disc Menu Operation**

You can set up some items in the DVD-VIDEO disc menu.

1. Touch illustrated area during playback.
   - Menu Control screen appears.

2. Perform desired operation as follows.

   - **Switches the picture angle**
     Touch **Angle**. Each time you touch this key, picture angle is switched.

   * These keys may not function depending on the disc.

   - **Highlight control**
     Highlight control lets you control the DVD menu by touching the menu key directly on the screen.
     
     1. Touch **Highlight** in the Menu Control screen.
     2. Touch desired item on the screen.

   **NOTE**
   - The highlight control is cleared automatically if you do not operate for a constant time.
**Disc**

**DVD Setup**

You can set up the DVD playback functions.

1. Touch illustrated area during playback.

2. Touch on the left side of the screen. Touch **SETUP**.

   ▶ DVD SETUP screen appears.

3. Set each item as follows.

   - **Menu Language** / **Subtitle Language** / **Audio Language**
     See **Language setup** (*P.20*).

   - **Dynamic Range Control**
     Sets the dynamic range.
     - **Wide**: The dynamic range is wide.
     - **Normal**: The dynamic range is normal.
     - **Dialog** (Default): Makes the total sound volume larger than other modes. This is effective only when you are using Dolby Digital software.

   - **Screen Ratio**
     Sets the screen display mode.
     - **16:9** (Default): Displays wide pictures.
     - **4:3 LB**: Displays wide pictures in the Letter Box format (having black stripes at the top and bottom of screen).
     - **4:3 PS**: Displays wide pictures in the Pan & Scan format (showing pictures cut at the right and left ends).

   - **Language setup**
     This setting is for the language used in the menu, subtitle, and voice.

     1. Touch the desired item; **Menu Language**, **Subtitle Language**, **Audio Language**.

        ▶ Language Set screen appears.

     2. Select a language.

        For language code, refer to **DVD Language Codes** (*P.96*).
        Sets the entered language and returns to the DVD Setting screen.

**NOTE**

- To set the DVD’s original language for audio language, touch **Original**.
USB

Connecting a USB device

1 Connect the USB device with the USB cable. *(P.89)*

2 Press the HOME button.

3 Touch \[\]

4 Touch USB. *(P.11)*

Disconnect the USB device

1 Press the HOME button.

2 Touch a source other than USB.

3 Detach the USB device.

Usable USB device

You can use a mass-storage-class USB device on this unit.
The word “USB device” appearing in this manual indicates a flash memory device.

About file system

The file system should be one of the following.
- FAT16  
- FAT32  
- exFAT  
- NTFS

**NOTE**

- Install the USB device in the place where it will not affect safe driving.
- You cannot connect a USB device via a USB hub and Multi Card Reader.
- Take backups of the audio files used with this unit. The files can be erased depending on the operating conditions of the USB device. We shall have no compensation for any damage arising from any erased data.

**USB Basic Operation**

Most functions can be controlled from the source control screen and playback screen.

**NOTE**

- Set the remote controller mode switch to AUD mode before starting operation, see *Switch the operation mode (P.80).*

**Control screen**

1  
2  
3  
4  
5  
6  
7  
8  

**Content list panel**

1  
2  
3  
4  
5  
6  
7  
8  

**Track information**

Displays the information of the current file.
Only a file name and a folder name are displayed if there is no tag information.
**USB**

3 **Function bar**
- **🔍** : Searches track/file. For details on search operation, see **Search Operation (P.23)**.
- **⏮️ ▶️ ▶️▶️** : Searches the previous/next track/file.
  Touch and hold to fast forward or fast backward. (It will be cancelled automatically after about 50 seconds.)
- **▶️ ▶️ ▶️** : Plays or pauses.
- ** chỉnh** : Displays the Graphic Equalizer screen. *(P.74)*

4 **Function panel**
Touch on the left side of the screen to display the function panel. Touch again to close the panel.
- **⏮️ ▶️ ▶️▶️** : Searches previous/next folder.
- **USB DEVICE CHANGE**
Switches to another USB device when two USB devices are connected.

5 **Content list**
Touch on the right side of the screen to display the Content list. Touch again to close the list.

6 **Indicator Items**
- **VIDEO**: Identifies the video file.
- **MUSIC**: Identifies the music file.

7 **Artwork/ Play mode indicator/ Playing time**
The jacket of the currently playing file is displayed.
- **▶️, ▶️ ▶️, etc.**: Current play mode indicator
  The meanings of each icon are as follows;
  - **▶️** (play), **▶️ ▶️** (fast forward), **⏮️ ▶️ ▶️▶️** (fast backward), **⏸️ ▶️ ▶️ ▶️** (pause).

8 **Content list panel**
Displays the playing list. When you touch a track/file name on the list, playback will start.
**Search Operation**

You can search music or video files by the following operations.

1. Touch [1].
2. Touch ▼.
3. Select the list type.

**NOTE**
- For operations in the list screen, see *List screen* (P.14).

**Category search**

You can search a file by selecting category.

1. Touch Category List.
2. Select whether you search by audio files or video files.
3. Touch the desired category.

> The list corresponding to your selection appears.

4. Touch to select desired item in the list. Repeat this step until you find the desired file.

**Link search**

You can search a file of same artist/album/genre as the current track.

1. Touch Link Search.
2. Touch the desired tag type. You can select from artist, album and genre.
3. Touch desired item from the content list.

> The list corresponding to your selection appears.

**Folder search**

You can search a file according to hierarchy.

1. Touch Folder List.
2. Touch the desired folder.

> When you touch a folder its contents are displayed.

3. Touch to select desired item in the list. Repeat this step until you find the desired file.
**iPod/iPhone**

**Preparation**

**Connectable iPod/iPhone**

The following models can be connected to this unit.

Made for
- iPhone 6s Plus
- iPhone 6s
- iPhone 6 Plus
- iPhone 6
- iPhone 5s
- iPhone 5c
- iPhone 5
- iPod touch (6th generation)
- iPod touch (5th generation)

**NOTE**

- Latest compatible list of iPod/iPhone. For details, see www.kenwood.com/cs/ce/ipod/.
- By connecting your iPod/iPhone to this unit with an optional accessory iPod connection cable KCA-iP103, you can supply power to your iPod/iPhone as well as charge it while playing music. However, the power of this unit must be on.
- If you start playback after connecting the iPod, the music that has been played by the iPod is played first.

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**Connect iPod/iPhone**

**Wired connection**

**Preparation**

- Connect an iPod/iPhone with the KCA-iP103 (optional accessory) while CarPlay is not connected.
- With a CarPlay-capable iPhone, turn off CarPlay by operating the iPhone at functional setup before connecting iPhone. For details of the setup method, contact the manufacturer of the terminal.
- Plug the iPod/iPhone into the gray USB terminal with the KCA-iP103 (optional accessory).
- Only one iPod/iPhone can be connected.

1. Connect the iPod/iPhone using KCA-iP103. (P.90)
2. Press the HOME button.
3. Touch ☐.
4. Touch iPod. (P.11)

● To disconnect the iPod/iPhone connected with the cable:
1. Detach the iPod/iPhone.

**Bluetooth connection**

Pair the iPhone through Bluetooth.

**Preparation**

- To connect an iPhone via Bluetooth, register it as the Bluetooth device and do the profile setting of the connection beforehand. See Register from the Bluetooth unit (P.54) and Connect the Bluetooth unit (P.56).
- Connect an iPhone on Bluetooth while CarPlay and an iPod/iPhone are not connected on USB.
iPod/iPhone Basic Operation

NOTE
- Set the remote controller mode switch to AUD mode before starting operation, see Switch the operation mode (P.80).

Control screen

1. : Repeats the current track/album. Each time you touch the key, repeat mode switches in the following sequence;
   - Song repeat ( ), All songs repeat ( )
- : Randomly plays all tracks in current album. Each time you touch the key, random mode switches in the following sequence;
   - Song random ( ), Album random ( ), Random off ( )

2. Track information
- Displays the information of the current file.
- Touch to display the category list screen. See Category search (P.26).

3. Function bar
- : Searches track/file. For details on search operation, see Search Operation (P.26).
- : Searches the previous/next track/file. Touch and hold to fast forward or fast backward. (It will be cancelled automatically after about 50 seconds.)
- : Plays or pauses.
- : Displays the Graphic Equalizer screen. (P.74)

4. Content list
Touch on the right side of the screen to display the Content list. Touch again to close the list.

5. Indicator Items
- MUSIC: Identifies the music file.

6. Artwork/Play mode indicator/Playing time
The jacket of the currently playing file is displayed.
- , , etc.: Current play mode indicator
  The meanings of each icon are as follows;
  - (play), (fast forward), (fast backward), (pause).

7. Content list panel
Displays the playing list. When you touch a track/file name on the list, playback will start.
Search Operation

You can search music files by the following operations.

1 Touch [ ].

2 Touch ▼.

3 Select the list type.

NOTE
• For operations in the list screen, see List screen (P.14).

Category search

You can search a file by selecting category.

1 Touch Category List .

2 Touch the desired category.

➤ The list corresponding to your selection appears.

3 Touch to select desired item in the list.
Repeat this step until you find the desired file.

Link search

You can search a file of same artist/album/genre/composer as the current track.

1 Touch Link Search .

2 Touch the desired tag type. You can select from artist, album, genre and composer.

➤ The list corresponding to your selection appears.

3 Touch desired item from the content list.
**Apple CarPlay Operation**

CarPlay is a smarter, safer way to use your iPhone in the car. CarPlay takes the things you want to do with iPhone while driving and displays them on the screen of the product. You can get directions, make calls, send and receive messages, and listen to the music from iPhone while driving. You can also use Siri voice control to make it easier to operate iPhone.

For details about CarPlay, visit [https://ssl.apple.com/ios/carplay/](https://ssl.apple.com/ios/carplay/).

**Compatible iPhone devices**

You can use CarPlay with the following iPhone models.

- iPhone 6s Plus
- iPhone 6s
- iPhone 6 Plus
- iPhone 6
- iPhone 5s
- iPhone 5c
- iPhone 5

**Preparation**

1. **Connect iPhone using KCA-iP103 via USB (Black) terminal.** *(P.90)*
   
   When iPhone compatible with CarPlay is connected to the USB (Black) terminal, the Bluetooth smartphone currently connected is disconnected.

2. **Unlock your iPhone.**

**Operation buttons and available Apps on the home screen of CarPlay**

You can use the Apps of the connected iPhone. The items displayed and the language used on the screen differ among the connected devices.

To enter CarPlay mode, touch **Apple CarPlay** icon in the source selection screen. *(P.11)*

![CarPlay Interface]

1. **App icons**
   - Displays the home screen of CarPlay.
   - Touch and hold to activates Siri.

2. **Application buttons**

   Starts the application.

3. **HOME**

   Exits the CarPlay screen and displays the Home screen.

**To exit the CarPlay screen**

1. **Press the HOME button.**
Use Siri

You can activate Siri.

1. Press the \[ \text{ } \] button for 1 second.

2. Talk to Siri.

To deactivate

1. Press the \[ \text{ } \] button.

Switch to the Apple CarPlay screen while listening to another source

1. Press the \[ \text{ } \] button.

NOTE

• If sound is output using Apple CarPlay when the Apple CarPlay screen is displayed, the source is switched to Apple CarPlay.

Android Auto™ Operation

Android Auto enables you to use functions of your Android device convenient for driving. You can easily access route guidance, make calls, listen to music, and access convenient functions on the Android device while driving.


Compatible Android devices

You can use Android Auto with Android devices of Android version 5.0 (Lollipop) or later.

NOTE

• Android Auto may not be available on all devices and is not available in all countries or regions.

Preparation

1. Connect an Android device via USB terminal. (P.90)

   To use the hands-free function, connect the Android device via Bluetooth. When an Android device compatible with Android Auto is connected to the USB terminal, the device is connected via Bluetooth automatically, and the Bluetooth smartphone currently connected is disconnected.

2. Unlock your Android device.
Operation buttons and available Apps on the Android Auto screen

You can perform the operations of the Apps of the connected Android device. The items displayed on the screen differ among the connected Android devices. To enter Android Auto mode, touch **Android Auto** icon in the source selection screen. *(P.11)*

Application/information buttons

Starts the application or displays information.

To exit the Android Auto screen

1. Press the HOME button.

Using voice control

1. Press the button for 1 second.

To cancel

1. Press the button.

Switch to the Android Auto screen while listening to another source

1. Press the button.

**NOTE**

- If sound is output using Android Auto when the Android Auto screen is displayed, the source is switched to Android Auto.
Pandora® Operation

You can listen to the Pandora® on this unit by controlling the application installed in the iPhone or Bluetooth device.

To enter Pandora source, touch **Pandora** icon in the source selection screen. (P.11)

**Preparation**

- Install the latest version of the Pandora® application on your iPhone, Android or BlackBerry.
  - **iPhone**: Search for "Pandora" in the Apple App Store to find and install the most current version.
  - **Android**: Visit the Google play and search for Pandora to install.
  - **BlackBerry**: Visit www.pandora.com from the built in browser to download the Pandora application.
- iPhones are connected on either USB or Bluetooth.
- Android or BlackBerry devices are connected on Bluetooth.
- To connect a smartphone via Bluetooth, register it as the Bluetooth device and do the App (SPP) profile setting of the connection beforehand. See **Register from the Bluetooth unit (P.54)** and **Connect the Bluetooth unit (P.56)**.

**Artwork/ Playing time**

- The picture data is displayed if available from current content.
- For confirmation of play time.

**Function bar**

- : Searches for a station. For details on searching, see **Station list screen (P.30)**.
- (Thumbs down) : Thumbs down to the current contents and skip to the next contents.
- (Thumbs up) : Registers the current contents as favorite content.
- , : Plays or pauses the content of the current station.
- : Skips the current song. (Note this function is disabled when the Pandora skip limitation is exceeded.)
- (Bookmark Song) : Bookmarks a song in the current contents.
- : Creates a new station. See **Creates a new station (P.31)**.
- : Displays the Graphic Equalizer screen. (P.74)

3 Content information

Displays the information of the current content being played.

**Station list screen**

You can perform the following functions from this screen.

1. Touch ➤ .

- Station List screen appears.

- Selects the station
  Touch the station name in the list.
- Sort the list by registered date
  Touch **By Recent**. The list is sorted to begin with the last registered station.
- Sort the list in alphabetical order
  Touch **By Name**. You can select the desired letter from the list which corresponds to the station name to help narrow the search.

NOTE

- You can operate Pandora by using the remote control. However, only playing, pausing, and skipping are available.
Creating a new station

1. Touch +.
2. Touch desired item.

- **Create station from artist**
  Creates a new station based on an artist being played.

- **Create station from track**
  Creates a new station based on a song being played.

- **Create station from genre**
  Displays the genre list screen.

**Genre list screen**

1. Touch **Create station from genre**.
2. The selected genre is created as a new station.

---

**About Pandora®**

**iPhone or iPod touch**

- Install the latest version of the Pandora application on your iPhone or iPod touch. (Search for “Pandora” in the Apple App Store to find and install the most recent version.)

**Android™**

- Visit the Google Play and search for Pandora to install.

**BlackBerry®**

- Visit www.pandora.com from the built-in browser to download the Pandora application.
- Bluetooth must be built in and the following profiles must be supported.
  - SPP (Serial Port Profile)
  - A2DP (Advanced Audio Distribution Profile)

**NOTE**

- In the application on your device, log in and create an account with Pandora. (If you are not already a registered user, an account can also be created at www.pandora.com.)
- Establish an Internet connection.
- Pandora is only available in certain countries. Please visit http://www.pandora.com/legal for more information.
- Because Pandora® is a third-party service, the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired or some or all of the services may become unavailable.
- Some functions of Pandora® cannot be operated from this unit.
- For issues using the application, please contact Pandora® at pandora-support@pandora.com.
**Spotify Operation**

You can listen to the Spotify on this unit by controlling the application installed in the iPhone or Android.

To enter Spotify source, touch **Spotify** icon in the source selection screen. *(P.11)*

### Preparation

- Install the latest version of the Spotify application "Spotify" on your iPhone or Android.
  - **iPhone**: Search for "Spotify" in the Apple App Store to find and install the most current version.
  - **Android**: Search for "Spotify" in Google play to find and install the most current version.
- iPhones are connected on either USB or Bluetooth.
- Android devices are connected on Bluetooth.
- To connect a smartphone via Bluetooth, register it as the Bluetooth device and do the App (SPP) profile setting of the connection beforehand. See **Register from the Bluetooth unit (P.54) and Connect the Bluetooth unit (P.56)**.

### Artwork/ Playing time

- The picture data is displayed if available from current content.
- For confirmation of play time.

### Function bar

- **** : Displays the Menu screen
- **(O)** : New radio station that relates to the artist of the currently playing song is selected and playback starts.
- **K** : Skips the current song.
- **M** : Plays or pauses the content of the current station.
- **** : Saves currently playing song to My Music.
- **** : Displays the Graphic Equalizer screen. *(P.74)*

### Content information

Displays the information of the current content being played.

### Selecting a track

1. Touch ****. > Menu screen appears.
2. Select the list type, then select a desired item.

- **Selects the category and station**
  Touch the category and station name in the list.
- **Top**
  Returns to the first hierarchy of the list.
- **Up**
  Returns to the previous list.
About Spotify®

iPhone or iPod touch
• Install the latest version of the Spotify application on your iPhone or iPod touch. (Search for “Spotify” in the Apple App Store to find and install the most recent version.)

Android™
• Visit Google play and search for “Spotify” to install.

Note
• Ensure you are logged in to your smartphone application. If you do not have an Spotify account, you can create one for free from your smartphone or at www.spotify.com.
• Because Spotify is a third-party service, the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired or some or all of the services may become unavailable.
• Some functions of Spotify cannot be operated from this unit.
• For issues using the application, contact Spotify at www.spotify.com.
• Establish an Internet connection.
HD Radio™ Tuner Basic Operation

Most functions can be controlled from the source control screen.

To enter HD Radio source, touch HD Radio icon in the source selection screen. (P.11)

NOTE

• Set the remote control mode switch to AUD mode before starting operation, see Switch the operation mode (P.80).
• HD Radio broadcasting is for North American sales area only.
• The screen shot below is for tuner. It may be different from the one for HD Radio broadcasting.

Information display
Displays the information of the current station: Frequency and Channel
Touching allows you to switch between Content A, Content B and Content C.
Content A: Station name, Song Title, Artist Name
Content B: Station Message, Radio Text
Content C: PTY Genre, Album Name

AUTO1 / AUTO2 / MANUAL
Switches the seek mode in the following sequence: AUTO1, AUTO2, MANUAL.
• AUTO1: Tunes in a station with good reception automatically.
• AUTO2: Tunes in stations in memory one after another.
• MANUAL: Switches to the next frequency manually.

Function bar
• : Tunes in a station. The method of frequency switching can be changed (see 3 in table).
• : Selects a channel.
• : Display the Channel List screen. See Channel search (P.37).
• : Display a list of registered bookmarks. See Bookmark list (P.39).
• : Displays the Graphic Equalizer screen. (P.74)

Preset key
Recalls the memorized station or channel.
• Touch on the right side of the screen to display the Preset list. Touch again to close the list.

Function panel
Touch on the left side of the screen to display the function panel. Touch again to close the panel. For details on the keys, see Function panel (P.35).

Picture
The picture data or station Logo data is displayed if available from current content.

Switches the band.
Preset list
Recalls the memorized station or channel. When touched for 2 seconds, stores the current receiving station or channel in memory.

Indicator Items
- **MC**: A multicast digital broadcast is being received.
- **ANALOG**: An analog broadcast is being received.
- **DIGITAL**: A digital broadcast is being received.
- **ST**: A stereo broadcast is being received.
- **EA**: White: Emergency Alert is on. No light: Emergency Alert is off. Orange: Interrupting or in snooze/ignore state.

Function panel
1. Touch on the left side of the screen.

The functions of each key are as follows.

**10key Direct**
Display the direct station/channel search screen. For details, see **Direct search (P.37)**.

**AME**
Presets stations automatically. For details, see **Auto memory (P.36)**.

**RCV**
Change the HD Radio reception mode. For details, see **Receive Mode (P.36)**.

**PTY** (FM only)
Searches a program by setting program type. For details, see **Search by program type (P.38)**.

**Emergency Alerts**
Turn on or off the alert message. See **Alert Message (P.40)**.

**Alert Message Log**
Displays the alert message received. See **Alert Message (P.40)**.

**HD2/HD3**
- Adjacent to traditional main stations are HD2/HD3 Channels, providing new original programming on the FM dial.

**Bookmark**
- A music & product discovery feature that enables users to store information about content on the radio, and can deliver interactive information via QR codes.

**Digital Sound**
- Crystal clear, CD-like digital audio quality to consumers; eliminates background noise.

**Program Info**
- Provides song name, artist, station ID, and other relevant data to enrich the listening experience.

**Artist Experience**
- Visual images, such as album art of over-the-air broadcasts from HD Radio stations.

**Emergency Alerts**
- Delivers critical and life-saving messages to the public during emergency situations.
**Receive Mode**

You can set the radio broadcasts receive mode.

1. **Touch on the left side of the screen.**
   Touch RCV.

2. **Select a receive mode.**
   - **Auto**
     Switch between digital and analog audio automatically.
   - **Digital**
     Select this to tune to digital audio only.
   - **Analog**
     Select this to tune to analog audio only.

**Memory Operation**

**Auto memory**

You can store stations with good reception in memory automatically.

1. **Touch desired band key.**

2. **Touch on the left side of the screen.**
   Touch AME.

3. **Touch Yes.**
   > Auto memory starts.

**Manual memory**

You can store the current receiving station or channel in memory.

1. **Select a station or channel you wish to store in memory.**

2. **Touch FM# (#:1-15) or AM# (#:1-5) in which you want to store the station or channel for 2 seconds until a beep sounds.**
Selecting Operation

- **Preset select**
  You can list and select memorized station or channel.

  1 Touch on the right side of the screen. Select a station or channel from the list.

- **Direct search**
  You can tune in by entering the desired frequency or channel number.

  1 Touch on the left side of the screen. Touch 10key Direct.
  2 Select the search method.
  3 Enter the frequency or channel number.
  4 Touch Enter.

  **NOTE**
  - To clear the number you entered, touch BS.

**Channel search**
You can specify the desired channel.

1 Touch .

2 Select the desired content from the list.

**NOTE**
- Touch Info Change in the channel list. Select the sequence of the list (Song title, artist name, album name).
**Search by program type**  
*(FM only)*

You can tune to a station with a specific program type when listening to FM.

1. **Touch on the left side of the screen.**  
   **Touch** [PTY].

   ➤ TUNER PTY Mode screen appears.

2. **Select a program type from the list.**

3. **Touch** [Search].

You can search a station of the selected program type.

---

**Bookmark**

Stores tag information (title, artist, album, URL, and description) about the song you are listening to now. Detailed information and QR codes can be displayed according to the stored tag information.

---

**Bookmark registration**

1. **Touch on the left side of the screen.**  
   **Touch** ✤.

   ➤ Registers a bookmark.

---

**NOTE**  
- Up to 100 bookmarks can be registered to this unit.
Bookmark list
Displaying a list of registered bookmarks and detailed information and QR code of the song.

1 Touch [ ].

2 Select the desired bookmark from the list.

- The bookmark information appears.

Delete
Deletes the bookmarks being displayed.

Bookmark delete
Deleting a bookmark.

1 Touch Delete.

2 Select the bookmark to delete from the list.

- All
Select all bookmarks.

- All
Erases all check marks.

3 Touch Delete.
- Confirmation message appears.

4 Touch Yes.
- Deletes all the selected bookmark(s).
Alert Message

This function is to receive alert messages. First, you need to turn on the “Emergency Alerts”. (P.35)

When an Alert Message comes

Snooze
The alert message is erased. Same alert message cannot be displayed for next 10 minutes.

Ignore
The alert message is erased. Same alert message cannot be displayed for next 12 hours.

Display of the received Alert Message

You can read the received alert message afterward.

1 Touch on the left side of the screen. Touch Alert Message Log.

2 Select the desired Alert Message from the list.

The Alert Message appears.

3 Touch Close.
SiriusXM®

SiriusXM® Basic Operation

Only SiriusXM® brings you more of what you love to listen to, all in one place. Get over 140 channels, including commercial-free music plus the best sports, news, talk, comedy and entertainment. Welcome to the world of satellite radio. A SiriusXM Vehicle Tuner and Subscription are required. For more information, visit www.siriusxm.com.

To enter SiriusXM source, touch **SiriusXM** icon in the source selection screen. *(P.11)*

Activating subscription

- Check your Radio ID. The SiriusXM Satellite Radio ID is required for activation and can be found by tuning to Channel 0 as well as on the label found on the SiriusXM Connect tuner and its packaging. The Radio ID does not include the letters I, O, S or F.
- Activate the SiriusXM Connect Vehicle Tuner using one of the two methods below:
  - For users in the U.S.A.:
    Online: Visit www.siriusxm.com/activatenow
    Phone: Call SiriusXM Listener Care at 1-866-635-2349
  - For users in Canada:
    Online: Visit www.siriusxm.ca/activatexm
    Phone: Call XM customer Care at 1-877-438-9677

NOTE

- Set the remote control mode switch to AUD mode before starting operation, see **Switch the operation mode** *(P.80)*.
- To use SiriusXM® Satellite Radio, the optional accessory is necessary.

Control screen

1. **Indicator display**
   Displays the “Mix” (TuneMix™), “Scan” (TuneScan™), (Traffic&Weather), (SportsFlash™) indicator and the received signal strength of the SiriusXM tuner.

2. **Information display**
   Displays the information of the current channel:
   - Channel Name
   - Touching : allows you to switch between Content A and Content B.
   - Content A: Artist Name, Song Title, Content Info
   - Content B: Category Name, Channel Description, Similar Channels
   - : Touch for 2 seconds to registers the artist of the current song as a Content Alert.
   - : Touch for 2 seconds to registers the current song as a Content Alert.
   For details, see **Content Alerts** *(P.47)*.

3. **SEEK**
   Switches the seek mode in the following sequence; **SEEK1 , SEEK2**.
   **SEEK1:** Tunes channels one after the other.
   **SEEK2:** Selects channels in preset (memory) one after the other.
4 Function bar
- : Display the Category search screen. For details on search operation, see Category/Channel search (P.44).
- : Plays or pauses. See Replay (P.45).
- : Selects a channel.
- : Displays the Graphic Equalizer screen. (P.74)

5 Preset key
Recalls the memorized channel.
Touch on the right side of the screen to display the Preset list. Touch again to close the list.

6 Function panel
Touch on the left side of the screen to display the function panel. Touch again to close the panel. For details on the keys, see Function panel (P.42).

7 Information display
Displays the following information.
SXM#: Band display
P#: Preset number
#CH: Channel display
Logo: Display album artwork for most SiriusXM music channels

8 Preset list
Recalls the memorized channel.
When touched for 2 seconds, stores the current receiving channel in memory.

Function panel

1 Touch on the left side of the screen.

The functions of each key are as follows.

Direct Channel
Touch and enter the desired number. For details, see Direct search (P.44).

SETUP
Touch to display the SiriusXM SETUP screen. For details, see SiriusXM Setup (P.48).

Band
Switches the band. (SXM1/ SXM2/ SXM3/ SXM4)

Replay / Live
Turns the replay mode on or off. See Replay (P.45).

Traffic & Weather
For SXV300 *
Traffic & Weather Now™ allows you to access the latest report whenever you want to hear it. Select your city at the set up menu Select a City for Traffic & Weather (P.52) and press the Traffic & Weather button to check the latest report. It will start from the beginning.
- (White): Played already.
- (Green): New information arrived.
- (Purple): Playing.
- (Gray): No information.

For SXV200 or SXV100 *
Turns the Traffic & Weather Jump function on or off.
- (White): Function on.
- (Purple): Playing.
- (Gray): Function off.
**TuneScan** *3*
Hear a few seconds of the songs from each of the SmartFavorite music channels on the current preset band. See *TuneScan™ (P.46).*

**TuneMix** *4*
When you turn it ON, the preset channels on P1-P6 are shuffled to provide a playback which is a blend of songs from your favorite channels. See *TuneMix™ (P.45).*

**SportsFlash** *4*
Displays during SportFlash™. To cancel the SportFlash interruption and return to the previous channel, touch it. See *SportsFlash™ (P.47) and SportsFlash™ setup (P.51).*

*1 Compatible with SXV300 or later tuner models. It may take a few minutes after power on to get the first full report for your city. Traffic channels are not available in Canada.

*2 When SXV200 or SXV100 is connected with this unit.

*3 Compatible with SXV200 or later tuner models.

*4 Compatible with SXV300 or later tuner models.

---

**Storing Channels in Preset Memory**

You can store the current channel in memory.

1. Tune to a channel you wish to store in memory.

2. Touch on the right side of the screen.

3. Touch and hold for 2 seconds (until you hear a beep) the preset number **SXM(1-4) P(1-6)** in which you want to store the channel.

**Preset select**

You can list and select memorized station or channel.

**To select from the preset list**

1. Touch on the right side of the screen. Select a channel from the list.
Direct search

You can tune to a channel directly.

1 Touch on the left side of the screen. Touch Direct Channel.

2 Enter the channel number and touch Enter.

NOTE
- To clear the number you entered, touch BS.

Category/Channel search

You can specify the desired category and select a channel.

1 Touch .

2 Select a category.

> Channel list appears.

3 Select the desired content from the list.

NOTE
- All the channels in the selected category appear.
- Touching All-Channels displays all the channels.
- Touch Info Change in the channel list. Select the sequence of list as follows: Channel name, artist name, song title, category name, content info
- Categories which have the prefix “Featured - “ are Featured Favorites.
- Featured Favorites are groups of channels that are created by the SiriusXM Programming department allowing you to discover new channels. Featured Favorite channels are dynamic and can change often, allowing you to discover new channels.
**Replay**

You can replay the last 60 minutes of the current channel.

1. Touch ▶ or **Replay** on the function panel.

- ■ ▶ ▶ Press to skip to the previous/next track. Press and hold to rewind or fast forward. (It will be cancelled automatically after about 50 seconds.)
- ■ ▶ Presses or pauses.
- ■ ▼ ▲ CH Tune in a channel.
- ■ **Replay time bar/Play mode indicator** Display recorded capacity and playback position.
- ▶, ▶, etc.: Current play mode indicator
- ■ ▼ Display a list of recorded data on a program basis.

2. Touch ■ ▼ to display an Instant Replay list.

- ■ **Instant Replay List** Touching this plays back the displayed program.
- ■ **Info Change** Touch **Info Change**. Select the sequence of the list as follows; Artist name, Song title, Category name, and Content info

---

**To return to live music/content**

1. Touch on the left side of the screen.
2. Touch **Live**.

---

**TuneMix™**

TuneMix™ plays a unique blend of songs from your Preset music channels from the current SiriusXM Preset Band, allowing you to build a custom channel from as few as two to as many as 6 music channels. You can even skip songs you don’t want to hear.

1. Touch on the left side of the screen. Touch **TuneMix** to set ON or OFF.

---

**SmartFavorites, TuneStart™**

Preset channels 1 through 6 of the current band are SmartFavorites channels. The SiriusXM Vehicle Tuner automatically buffers the broadcast audio content of the SmartFavorites channels in the background.

You can rewind and replay up to 30 minutes of any of the missed news, talk, sports or music content when you tune to a SmartFavorites channel. (see **Replay (P.45)**)

When tuning from a SmartFavorites channel, songs will play from the beginning of each track (TuneStart™). You can enable/disable TuneStart. (see **TuneStart™ (P.52)**)

---

**NOTE**

- Compatible with SXV300 or later tuner models.
**TuneScan™**

TuneScan™ is a feature that plays samples from the starts of multiple buffered songs from each of the SmartFavorites channels that predominantly play music selections. You have easy access to a large sampling of music content and can enjoy hearing a full song when stopping the scan on a song of interest.

1. Touch on the left side of the screen.
2. Touch [TuneScan] to begin scanning your SmartFavorites channels. You will hear a few seconds of the songs from each of the SmartFavorite channels.
3. Touch [TuneScan] again while your favorite song is being played to start listening to that song.

- Scan finishes and continues playing the song.

**NOTE**
- To cancel TuneScan™, Touch on the left side of the screen. Touch [TuneScan].
- Touch and hold [TuneScan] to cancel TuneScan, the channel before starting TuneScan will be played.
- Compatible with SXV200 or later tuner models.

**Traffic & Weather Now™**

Traffic & Weather Now™ allows you to access the latest report whenever you want to hear it. Select your city at the set up menu Select a City for Traffic & Weather (P.52).

1. Touch on the left side of the screen.

2. Touch Traffic & Weather. The report starts from the beginning. To stop and return to the previous channel, touch it again.

**Indicator display**
- (White) : Played already.
- (Green) : New information arrived.
- (Purple) : Playing.
- (Gray) : No information.

**NOTE**
- Compatible with SXV200 or later tuner models.
Content Alerts

When a broadcast program related to the registered artist, song or team starts, a message appears to allow you to switch the current channel to the relevant channel.

1 When the broadcast of the registered content starts, an Alert screen appears.

- **Jump**
  Touch to display the Alert Content List screen.

- **Ignore**
  Touch to cancel the Content Alerts.

2 Select a content from the list.

![Alert Screen]

**Alert Contents List**

**CH 10:3 Doors D**
**CH 4:Les Brown**

**NOTE**

- Touch **Info Change**. Select the sequence of the channel list as follows; Artist Alert, Song Alert, GameAlert™
- To learn how to register artists and songs the Team alert function, see 2. Information display of SiriusXM® Basic Operation (P.41).
- To learn how to set up the Content Alerts function, see Content Alerts setup (P.50).

SportsFlash™

SportsFlash™ will notify you when a big play happens during a game with one of your favorite sports teams. Choose to tune in and hear the play unfold like it was live. Continue listening to the game, or you can return to your previous channel.

1 When a big play happens during one of the games, an Alert screen appears.

- **Jump**
  Touch to tune to that channel and play back the big play.

- **Ignore**
  Touch to cancel this specific Sports Flash Alert. Touching **Ignore** will ignore this specific alert but will allow future alerts for this game.

- **Cancel**
  Touch to cancel the SportsFlash alert. No alerts from this game will be displayed afterward.

**NOTE**

- Compatible with SXV300 or later tuner models.
- To learn how to set up the SportsFlash alert function, see SportsFlash™ setup (P.51).
SiriusXM®

SiriusXM Setup

1 Touch on the left side of the screen. Touch SETUP.

SiriusXM SETUP screen appears. See the following section for each setting.
- Set up the parental code (P.48)
- Set up the Parental Control (P.49)
- Set up the skip channel select (P.50)
- Set up the Content Alerts (P.50)
- Set up the team for SportsFlash™ (P.51)
- Select the city for Traffic & Weather Jump or Traffic & Weather Now™ (P.52)
- Set up the TuneStart™ (P.52)
- Reset to the default settings (P.52)

- Parental code
You can set a SiriusXM parental code for Parental Control.

1 Touch Parental Code in the SiriusXM SETUP screen.

Parental Pass Check screen appears.

NOTE
- The code number is set to "0000" as default.

2 Enter the current code number and touch Enter.

Parental Pass 1st entering screen appears.

3 Enter the new code number and touch Enter.

Parental Pass 2nd entering screen appears.

4 Enter the same code number as you input in step 2 and touch Enter.

The code number is confirmed and SiriusXM parental code is now set.
Parental Control

Parental Control is a feature that provides the user with the ability to prevent unauthorized access to mature content and user selected channels.

1. Touch Parental Control in the SiriusXM SETUP screen.
2. Touch Mature, User or OFF.

■ OFF
  Deactivates the parental mature and user locks.

■ Mature
  Locks channels classified as "mature" only.

■ User
  Locks only the selected channels.

3. Enter the parental code you originally input in Parental code (P.48) and touch Enter.

When selecting User

This allows you to limit access to any SiriusXM channel (Parental Lock Channel).

1. Touch Parental Lock Channel Selection in the SiriusXM SETUP screen.

   Parental Pass Check screen appears.

   NOTE
   • You need to set up a Parental code (P.48) beforehand.

2. Enter the parental code you originally input in Parental code (P.48) and touch Enter.

   Parental Lock Category Select screen appears.

3. Touch the desired category from the list.

   Displays all the channels in the selected category.

NOTE
• Touch All-Channels to display all the channels.
• To delete the parental lock channel setting, touch Disable All and then touch YES on the confirmation screen.

4. Touch each channel on the list and set to ON or OFF.

   On: If you wish to set the lock.
   Off: If you wish to unlock the channel.

   NOTE
   • Touch Info Change. Select the sequence of the channel list as follows;
     Channel name, Artist name, Song title, Category name, Content information.
### Skip channel select

You can set the undesired channels to skip.

1. Touch **Skip Channel Select**.  
   - Skip Category Select screen appears.
2. Touch the desired category from the list.
   - Displays all the channels in the selected category.
3. Touch each channel on the list and set to ON or OFF.

**NOTE**
- To delete the skip channel setting, touch **Disable All** and then touch **YES** on the confirmation screen.
- Touch **Info Change**. Select the sequence of the channel list as follows: Channel name, Artist name, Song title, Category name, Content information.

### Content Alerts setup

#### Activating content alert

1. Touch **Content Alerts** in the SiriusXM SETUP screen.  
   - The Content Alerts is turned on or off. Default is “ON”.

#### Selecting the content for the content alert

1. Touch **Content Alerts Content Set** in the SiriusXM SETUP screen.  
   - Artist list screen appears.
2. Select the content you want to set up.

**NOTE**
- You need to set up a **Parental code (P.48)** beforehand.

3. Touch each content list and set ON or OFF.

**NOTE**
- You can select “ON” up to 30 items of Artist, Song, and Team.

#### To delete the Artist and Song

1. Touch **Delete**.
2 Touch each content list.

3 Touch Delete and then touch YES on the confirmation screen.

To select a Team
Get alerted when your favorite sports team is playing on another SiriusXM channel with GameAlert™

1 Touch My Games.

2 Touch the desired league from the list.

3 Touch each team list and set ON or OFF.

SportsFlash™ setup

Activating SportsFlash
1 Touch SportsFlash in the SiriusXM SETUP screen.
   ▶ The SportsFlash is turned on or off. Default is “ON”.

Selecting the team for SportsFlash
1 Touch SportsFlash Team Set in the SiriusXM SETUP screen.
   ▶ Team Set screen appears.

2 Touch Edit.

3 Touch the desired league from the list.

4 Touch each team list and set ON or OFF.

5 Touch twice.

NOTE
• You can select “ON” up to 30 items of Artist, Song, and Team.
■ **Edit**
Sets and removes teams.

■ **Priority**
Sets the priority of a team to be posted.

■ **Clear**
Removes all teams that have been set. Touch Clear. When the confirmation screen appears, touch YES.

**NOTE**
- SportsFlash™ is available on SXV300 or later tuner models.
- Up to 50 teams can be added.

---

**Set the SportsFlash™ Team Priority**

1. Touch **Priority**.

2. Set the priority of a team.
   Each time you touch Team, the priority is set and reset.

3. Touch **Done**.

**NOTE**
- Priority can be set on up to 5 teams.

---

- **Select a City for Traffic & Weather**
You can select a city for which you wish to receive SiriusXM Traffic & Weather broadcasts and hear them from the beginning.

1. Touch **Traffic & Weather City Select** in the SiriusXM SETUP screen.

2. Touch ◀ and ▶ to select a city.

---

- **TuneStart™**
1. Touch **Tune Start** in the SiriusXM SETUP screen.
   The TuneStart is turned on or off. Default is "ON".

---

- **Reset**
1. Touch **SiriusXM Reset** in the SiriusXM SETUP screen.
   ▶ Confirmation screen appears.

2. Touch **YES**.
   ▶ All SiriusXM settings return to default.
Bluetooth Control

Using the Bluetooth function, various functions can be used: listening to the audio file, making/receiving a call.

Information for using Bluetooth® devices

Bluetooth is a short-range wireless radio communication technology for mobile devices such as mobile phones, portable PCs, and other devices.

Bluetooth devices can be connected without cables and communicate with each other.

NOTE

• While driving, do not perform complicated operations such as dialing numbers, using the phone book, etc. When you perform these operations, stop your car in a safe place.
• Some Bluetooth devices may not connect to this unit depending on the Bluetooth version of the device.
• This unit may not work for some Bluetooth devices.
• Connecting conditions may vary depending on your environment.
• For some Bluetooth devices, the device is disconnected when the unit is turned off.

About the cell-phone and Bluetooth audio player

This unit conforms to the following Bluetooth specifications:

Version
Bluetooth Ver. 3.0
Profile
Cell-phone:
HFP (V1.6) (Hands Free Profile)
SPP (Serial Port Profile)
PBAP (Phonebook Access Profile)
Audio player:
A2DP (Advanced Audio Distribution Profile)
AVRCP (V1.5) (Audio/Video Remote Control Profile)

Sound codec
SBC, AAC

NOTE

• For the cell-phones verified for compatibility, access the following URL:
http://www.kenwood.com/cs/ce/bt/
• The units supporting the Bluetooth function have been certified for conformity with the Bluetooth Standard following the procedure prescribed by Bluetooth SIG.
• However, it may be impossible for such units to communicate with your cell-phone depending on its type.
Register from the Bluetooth unit

It is necessary to register the Bluetooth audio player or cell-phone to this unit before using the Bluetooth function. You can register up to 10 Bluetooth units.

NOTE

• Up to 10 Bluetooth units can be registered. If an attempt is made to register the 11th Bluetooth unit, the Bluetooth unit connected on the earliest date will be deleted to register the 11th one.
• This unit is compatible with the Apple Easy Pairing function. When an iPod touch or iPhone is connected to this unit, an authentication dialog appears. Performing operation for authentication on this unit or iOS smartphone registers the smartphone as a Bluetooth device.

Follow the step 1, 2 and 3 for registration.

Step 1: Registration from the Bluetooth device

1. Search the unit (“DDX****”/“DMX****”) from your smartphone/cell-phone.
2. Input the PIN code in your smartphone/cell-phone.
   PIN code is set to “0000” as the default.

SSP (Secure Simple Pairing of Bluetooth 2.1 or later)

1. Search the unit (“DDX****”/“DMX****”) from your smartphone/cell-phone.
2. Confirm the request both on the smartphone/cell-phone and the unit.

Step 2: Connection settings

• When the HFP profile is supported, Hands Free 1 or 2 is automatically selected for connection, proceeding to the next step.
• When the A2DP or SPP profile is supported, the cell-phone or audio player is automatically connected, proceeding to the next step.

If cell-phones and/or audio players have already been connected, a selection screen appears.

1. Select the hands-free number to connect. A name of a smartphone is displayed when it has hands-free connection with the unit.

2. Select if you want to use the audio player app in your smartphone over A2DP, and the other apps in your smartphone over SPP.
   This message appears if the device supports BT audio (A2DP) or smartphone link (SPP).
Step 3: Phonebook transfer

1. Select if you want to transfer your phonebook data. This message appears if the device supports PBAP.

The phonebook data transmission starts. Some smartphones may request permission to access the data. The data transmission will start with your permission.

When the data transmission and connection have completed, the Bluetooth connection icon appears on the screen.

---

Bluetooth Setup

1. Press the MENU button. > Popup menu appears.

2. Touch SETUP.

   > SETUP Menu screen appears.

3. Touch Bluetooth.

   > Bluetooth SETUP screen appears. See the following section for each setting.
   - Connect the Bluetooth unit (P.56)
   - Change the PIN code (P.57)
   - Change the device name (P.57)
Bluetooth Control

Connect the Bluetooth unit

1 Touch Select Device in the Bluetooth SETUP screen.

2 Touch the device name you want to connect.

Profile select screen appears.

NOTE
• If the icon is lighted, it means that the unit will use that device.

3 Set each profile as follows.

- TEL (HFP) 1, TEL (HFP) 2
  The device is connected with the unit as hands-free phone 1 or 2.

- Audio (A2DP)/App (SPP)
  Set to interwork with an application installed in a smartphone or to use as an audio player.

4 Touch Close.

To delete the registered Bluetooth unit

1 Touch Delete.

2 Touch the device name to check.

3 Touch Delete.

Confirmation message appears.

4 Touch Yes.
Change the PIN code

1 Touch **PIN Code** in the Bluetooth SETUP screen.
   ➤ PIN Code Set screen appears.
2 Input the PIN code.
3 Touch **SET**.

Change the device name

1 Touch **Device Name** in the Bluetooth SETUP screen.
   ➤ Change Device Name screen appears.
2 Input the device name.
3 Touch **Enter**.

Playing Bluetooth Audio Device

Most function can be controlled from the source control screen.
To enter Bluetooth source, touch **Bluetooth** icon in the source selection screen. (P.11)

Bluetooth basic operation

Control screen

1 **Device name/**  /  
   • Connected device name.
   • : Repeats the current track/folder. Each time you touch the key, repeat mode switches in the following sequence; File repeat ( ), Folder repeat ( ), All songs repeat ( ), Repeat off ( ).
   • : Randomly plays all tracks in current folder. Each time you touch the key, random mode switches in the following sequence; Folder random ( ), All random ( ), Random off ( ).

2 Information display *
   Displays the name of the track information.

3 Function bar *
   • : Searches file. See **File search** (P.58).
   • : Searches the previous/next content. Touch and hold to fast forward or fast backward. (It will be cancelled automatically after about 50 seconds.)
   • : Plays.
   • : Pauses.
   • : Displays the Graphic Equalizer screen. (P.74)
Bluetooth Control

4 Function panel
Touch on the left side of the screen to display the function panel. Touch again to close the panel.

- **BT DEVICE CHANGE**: Selects the device to connect via Bluetooth audio (A2DP) or APP (SPP). See Connect the Bluetooth audio (P.58).

5 Play mode indicator/Playing time
- ▶, ■: Current play mode indicator
  The meanings of each icon are as follows;
  ▶ (play), ▶▶ (fast forward), ◀◀ (fast backward), ■ (pause).

*These items appear only when the audio player which supports AVRCP profile is connected.

**NOTE**
- If the operation keys do not appear, operate from the player.
- Depending on your cell-phone or audio player, audio may be heard and controlled but text information may not appear.
- If the volume is too low, raise it on your cell-phone or audio player.

Connect the Bluetooth audio
Selects the device to connect via Bluetooth audio (A2DP) or APP (SPP).

1 Touch on the left side of the screen. Touch **BT DEVICE CHANGE**.

2 Touch the device name you want to connect.

3 Touch **Close**.

File search

1 Touch **Search**.

2 Touch the desired file or folder.

When you touch a folder its contents are displayed.

3 Touch desired item from the content list. ▶ Playback starts.

**NOTE**
- For operations in the list screen, see List screen (P.14).
Using Hands-Free Unit

You can use telephone function by connecting the Bluetooth telephone to this unit.

NOTE

• While Apple CarPlay or Android Auto is being connected, Bluetooth Hands-Free function and two Bluetooth devices connections cannot be used. Only Apple CarPlay or Android Auto Hands-Free function can be used.

Make a call

1 Touch ✆.

Hands Free screen appears.

NOTE

• If your mobile phone supports PBAP, you can display the phone book and call lists on the touch panel screen when the mobile phone is connected.
  – Phone book: up to 1000 entries
  – Up to 50 entries including dialed calls, received calls, and missed calls

2 Select a dialing method.

• ✆: Call using call records
• ✆: Call using the phonebook
• ✆: Call using the preset number
• ✆: Call by entering a phone number
• ✆: Voice Recognition (P.60)

Select the cell-phone to use

When you connect two cell-phones
1) Touch ✆ to select the phone you want to use.

Bluetooth SETUP

1) Touch ✆.

Bluetooth SETUP screen appears.

NOTE

• The status icons such as battery and antenna displayed may differ from those displayed on the cell-phone.
• Setting the cell-phone in the private mode can disable the hands-free function.

Call using call records

1 Touch ✆.

2 Select the phone number from the list.

Call by entering a phone number

1 Touch ✆.

2 Enter a phone number with number keys.

3 Touch ✆.
**Bluetooth Control**

**Call using the preset number**

1 Touch [ ]

2 Touch the Name or phone number.

**Call using the phonebook**

1 Touch [ ]

2 Touch [ ]

3 Select the initial.

- Characters with no corresponding name will not appear.
- During search, a non-accent character such as “u” is searched for instead of an accent character such as “ü”.

4 Select the person you want to call from the list.

5 Select the phone number from the list.

**NOTE**

- You can set the list to arrange in the order of last name or first name. For details, see *Hands-Free Setup (P.63)*.

---

**Voice Recognition**

You can access the voice recognition function of the cell-phone connected to this unit. You can search the cell-phone phonebook by voice. (The functionality depends on the cell-phone.)

1 Press the [ ] button for 1 second.

   Voice Recognition screen appears.

2 Start speaking.

**NOTE**

- You can use voice recognition function by touching [ ] on the Hands Free screen.
Receive a call

1 Touch \( \square \) to answer a phone call or \( \square \) to reject an incoming call.

NOTE
• While monitoring the view camera, this screen does not appear even if a call comes in. To display this screen, press the TEL button or return the shift knob of car to the driver position.

To end call

1 While talking, touch \( \times \).

Operations during a call

● Adjust the volume of your voice
1) Touch Speech Quality.
2) Touch \( \triangleleft \) or \( \triangleright \) of Microphone Level.

● Adjust the receiver volume
Press the \( \downarrow \) or \( \uparrow \) button.

● Mute your voice
Touch \( \square \) to mute or not to mute your voice.

● Output the dial tone
Touch DTMF to display the tone input screen. You can send tones by touching desired keys on the screen.

● Switching the speaking voice output
Touching \( \square / \square \) each time switches the speaking voice output between cell-phone and speaker.

● Call-waiting
When you receive a call while talking on another call, you can answer the newly received call by touching \( \square \). The current call is on hold.

Each time you touch \( \square \), the caller will change. When you touch \( \square \), the current call will end and switch to the call in hold.

\( \times \)
The Hands-Free popup screen is closed. To display it again, touch \( \square \).
Bluetooth Control

Phone number preset
You can register frequently used phone numbers to this unit.

1 Touch \[\star\].

2 Touch Edit. 

3 Select where to preset.

4 Select how to preset.

- Add number from phonebook:
  Select the number to preset by referring to "Call using the phonebook". See Call using the phonebook (P.60).

- Add number direct:
  Enter the telephone number directly and touch SET. See Call by entering a phone number (P.59).

NOTE

- To delete the preset number, touch Delete and then touch Yes on the confirmation screen.

Phonebook transfer
You can transfer the phonebook in your Bluetooth smartphone via PBAP.

1 Touch \[\phonebook\].

2 Touch \[\phonebook\].

The phonebook data transmission starts.

Phonebook deletion

1 Touch \[\phonebook\].

2 Touch the name to check.

- All
  Checks all boxes.

- All
  Erases all check marks.

3 Touch Delete .
  Confirmation message appears.

4 Touch Yes .
Hands-Free Setup

You can perform various setup about handsfree function.

1 Press the **MENU** button.
   - Popup menu appears.

2 Touch **SETUP**.
   - SETUP Menu screen appears.

3 Touch **Bluetooth**.
   - Bluetooth SETUP screen appears.

4 Touch **TEL SETUP**.
   - TEL SETUP screen appears.

5 Set each item as follows.

- **Bluetooth HF/Audio**
  Select the speakers to output the sound from cell-phone (such as phone call voice and ringing tone) and Bluetooth audio player.
  - **Front**: Outputs from the front speakers.
  - **All** (Default): Outputs from all speakers.

- **Auto Response**
  Sets an automatic response time to pick-up an incoming call.
  - **OFF** (Default): Automatic response is not available.
  - **1/5/10/15/20/25/30**: Set calling ring time (second).

- **Auto Pairing**
  When set to "ON", the Apple Auto Pairing function is turned on to automatically register the iPod touch or iPhone connected to this unit.
  - **ON** (Default): Uses Apple Auto Pairing function.
  - **OFF**: Not uses Apple Auto Pairing function.

- **Sort Order**
  Sets how to arrange the cell-phone phonebook.
  - **First**: Arranges in the order of first name.
  - **Last** (Default): Arranges in the order of last name.

- **Echo Cancel Level**
  Adjusts the level of echo cancellation.
  Default is "0".

- **Noise Reduction Level**
  Reduces the noises generated by surrounding environment without changing the microphone volume. Use this setting when the voice of caller is not clear. Default is "0".

   * Either the time interval for automatic answer set on this unit or the time interval set on the cell-phone, whichever is shorter takes effect.

6 Touch **OK**.
Other External Components

View Camera

NOTE
• To connect a camera, see P.89.
• To use a rear view camera, a REVERSE lead connection is required. (P.88)
• The view of the front view camera or dashboard camera varies depending on the setting of Dashboard Camera /Front Camera.
• If R-CAM Interruption is set to on, the camera screen is displayed when you shift the gear to the reverse (R) position.

Display the camera screen

1 Press the MENU button.
   DDX9904S/ DDX9704S

   DMX7704S
   ➤ View camera screen appears.

2 Adjust each item as follows.

1 Switching the View Camera
   Touch to change the front view camera or dashboard camera and rear view camera.

2 Camera off
   Touch to exit the camera screen.

3 Switching the Guideline
   Touching each time turns on or off the guideline. Available when Rear Camera is set to CMOS 3-Series Camera.

4 Switching the Angle
   Touch to change the camera angles:
   Available when Dashboard Camera / Front Camera is set to CMOS 3-Series Camera.

Camera Setup

1 Press the MENU button.
   ➤ Popup menu appears.

2 Touch SETUP.
   ➤ SETUP Menu screen appears.

3 Touch Camera.
   ➤ Camera screen appears.

4 Set each item as follows.

Rear Camera
CMOS 3-Series Camera: Select this when the CMOS-3xx series with ID 1 set is connected.
Other (Default): Select this when the other camera is connected.

R-CAM Interruption
ON: Displays the picture from the rear view camera when you shift the gear to the reverse (R) position.
OFF (Default): Select this when no camera is connected.

R-CAM Settings
If you select CMOS 3-Series Camera for Rear Camera, adjusts the CMOS-3xx series with ID 1 set. For details, see the instruction manual of your camera.

Parking Guidelines
You can display parking guidelines to enable easier parking when you shift the gear to the reverse (R) position. Default is "ON".

Other External Components
Other External Components

Guidelines SETUP
If you select **ON** for **Parking Guidelines**, adjust the parking guidelines. See **To adjust the parking guidelines** *(P.65)*.

Dashboard Camera /Front Camera
Dashboard Camera: Select this when the dashboard camera is connected.
CMOS 3-Series Camera: Select this when the CMOS-3xx series with ID 2 set is connected.
Other: Select this when the other camera is connected.
OFF (Default): Select this when no camera is connected.

F-CAM Settings
If you select **CMOS 3-Series Camera** for **Dashboard Camera /Front Camera**, adjusts the CMOS-3xx series with ID 2 set. For details, see the instruction manual of your camera.

Front Camera Mirror Image
If you select **ON** for **Dashboard Camera / Front Camera**.
**ON**: Displays the picture from the front view camera horizontally reversed.
**OFF** (Default): Displays the picture from the front view camera as it is.

To adjust the parking guidelines

**NOTE**
- Install the rear view camera in the appropriate position according to the instructions supplied with the rear view camera.
- When adjusting the parking guidelines, make sure to use the parking brake to prevent the car from moving.

1. Touch **ON** of **Parking Guidelines** in the Camera screen. *(P.64)*
2. Touch **Guidelines SETUP** in the Camera screen.
3. Adjust the parking guidelines by selecting the mark.

**NOTE**
- Touch **Initialize** and after touch **Yes** to set all the marks to the initial default position.

Use Dashboard Camera

A Dashboard Camera, DRV-N520 (optional accessory), connected to this unit lets you play video-recorded data and so on.
For details, see the instruction manual of the Dashboard Camera DRV-N520 (optional accessory).

**NOTE**
- To connect a camera, see **P.90**.
- Sets the dashboard camera/fron camera as **Dashboard Camera** *(P.65)*

Display the dashboard camera screen

1. Press the **MENU** button.
   - Popup menu appears.
2. Touch **Camera**.

4 Adjusting the position of the selected mark.

Make sure that **A** and **B** are horizontally parallel, and that **C** and **D** are the same length.

Display the dashboard camera screen

1. Press the **MENU** button.
   - Popup menu appears.
2. Touch **Camera**.
Other External Components

1 Switching the View Camera
Touch to change the dashboard view camera and rear view camera.

2 Camera off
Touch to exit the camera screen.

3 Key display
Touch to display the dashboard camera control buttons.

External audio/video players—AV-IN

Start playback
1 Connect an external component to the AV-IN input terminal. (P.89)
2 Select AV-IN as the source. (P.11)
3 Turn on the connected component and start playing the source.

OEM Features Operation

By connecting this unit to the bus system of the vehicle using an iDataLink (commercially available), this unit can access the satellite radio source provided for the vehicle and vehicle information can be displayed on this unit.

1 Press the HOME button.
   HOME screen appears.

2 Touch on the HOME screen.

3 Touch icon.

- Displays the control screen of the satellite radio source provided for the vehicle.
- Displays the control screen of the media player source provided for the vehicle.
- Displays the control screen of the Bluetooth Hands Free function provided for the vehicle.
- Displays the control screen of the Bluetooth streaming source provided for the vehicle.
- Displays information about the instruments such as a speedometer.
- Displays information about the air conditioner of the vehicle.*
- Displays information about the Parking Distance Sensor of the vehicle.
- Displays information about the tire pressures of the vehicle.*
- Displays information about the Radar Detector.*

* These ADS adapter features are displayed as the widget on the Home screen. (P.10) You can display these screens by touching the widget.

NOTE
- Displayable screens, button names, and screen names vary depending on the type of the connected iDataLink and the model of the vehicle. For more details, access the following URL:
  www.idatalink.com/
### Monitor Screen Setup

You can adjust image quality in video, menu screen, etc.

1. **Press the MENU button.**
   - Popup menu appears.

2. **Touch Screen Adjustment.**
   - Screen Control screen appears.

3. **Adjust each item as follows.**

   - **Backlight / Contrast / Black / Brightness / Color / Tint**
     Adjusts each item.

   - **Aspect**
     Select screen mode.

     - **Full**: Changes the aspect ratio of video and displays fully on the screen.
     - **Normal**: Displays with 4:3 ratio.
     - **Auto**:
       - DVD, VCD and disc media: Video of 16:9 ratio is displayed in Full and video of 4:3 ratio is displayed in Regular.
       - USB device: Displays video fully on vertical or horizontal with no ratio change.

### System Setup

**NOTE**
- Each operation in this section can be started from the multi function menu.

1. **Press the MENU button.**
   - Popup menu appears.

2. **Touch SETUP.**
   - Screen Control screen appears.

   - See the following section for each setting:
     - Set up AV (P.71)
     - Set up display (P.69)
     - Set up the user interface (P.68)
     - Set up camera (P.64)
     - Set up special (P.69)
     - Set up Bluetooth (P.55)
Setting Up

User Interface Setup

You can setup user interface parameters.

1. Press the [MENU] button.
    > Popup menu appears.

2. Touch [SETUP].
    > SETUP screen appears.

3. Touch [User Interface].
    > User Interface screen appears.

4. Set each item as follows.
   ■ Beep
      Turns the key touch tone on or off.
      Default is “ON”.

   ■ Parking Assist Display
      When an ADS adapter is connected, you can display information about obstacles around the car.
      ON: Always displays information.
      Dyn. (Default): Displays information when the sensor detects obstacles.
      OFF: Cancels.
      This can be set when the iDataLink (commercially available) is connected.

   ■ Parking Assist Position
      Select where information about obstacles is displayed on the screen (left or right).
      “Left”/“Right” (Default)
      This can be set when the iDataLink (commercially available) is connected.

   ■ Language Select
      Selects a language.

   ■ Touch Panel Adjust (DMX7)
      Adjust the sensing position of touch panel. (P.68)

   ■ Clock
      GPS-SYNC (Default): Synchronizes the clock time with the GPS.
      Manual: Sets the clock manually

   ■ Time Zone
      Select the time zone.

   ■ Clock Adjust
      If you select Manual for Clock, adjust the date and time manually. (P.68)

   ■ Adjust the date and time manually.
      1. Touch Time Zone in the User Interface screen.
      2. Select the time zone.
      3. Touch Clock Adjust in the User Interface screen.
      4. Adjust the date, then adjust the time.

   5. Touch Set.

   ■ Touch panel adjustment (DMX7)
      1. Touch Touch Panel Adjust on the User Interface screen.
         > Touch Panel Adjust screen appears.
      2. Follow the instruction on the screen and long touch the center of each .

   NOTE
   • To cancel the touch panel adjustment, touch Cancel.
   • To reset to the initial status, touch Reset.
Special Setup

You can setup Special parameters.

1. Press the [MENU] button.
   ➤ Popup menu appears.

2. Touch [SETUP].
   ➤ SETUP screen appears.

3. Touch [Special].
   ➤ Special screen appears.

4. Set each item as follows.
   ■ DEMO
   Set the demonstration mode. Default is “ON”.

   ■ Manual Power OFF
   Assigns the function of the [HOME] button when held.
   AV OFF: Turns off the screen and audio.
   Interrupts from incoming hands-free calls, rear camera views and so on are functional, though.
   Complete OFF (Default): Switches off the power. Interrupts are not functional.

   ■ SETUP Memory
   Locks or unlocks the Audio SETUP Memory/Recall/Clear.

   ■ Audio SETUP Memory
   Memorizes the current audio setting.
   • Fader/ Balance, Speaker / X'over, Equalizer (User Preset, SW Level), Position/DTA, Sound Effect (P.72)

   ■ Audio SETUP Recall
   Recalls the memorized audio setting.

   ■ Audio SETUP Clear
   Clears the AUDIO SETUP Memory and the currently memorized audio setting.

   ■ Software Information
   Check the software version of this unit. (P.69)

   ■ Open Source Licenses
   Displays the open source licenses.

   ■ Initialize
   Touch [Initialize] and then touch [Yes] to set all the settings to the initial default settings.
   • Audio SETUP Memory is not initialized.

Software Information

Check the software version of this unit.


2. Confirm the software version.

   ![Software Information](image)

   **NOTE**
   • For how to update the software, see the relevant update procedure manual which comes with the software.

Display Setup

1. Press the [MENU] button.
   ➤ Popup menu appears.

2. Touch [SETUP].
   ➤ SETUP screen appears.

3. Touch [Display].
   ➤ Display screen appears.

4. Set each item as follows.
   ■ Dimmer
   Select dimmer mode.
   OFF: The display and buttons do not dim.
   ON: The display and buttons dim.
   SYNC (Default): Turns the dimmer function on or off when the vehicle light control switch is turned on or off.
Setting Up

■ OSD Clock
Select if you want to display the clock while watching DVD video, etc.
"ON" (Default)/ "OFF"

■ Key Color
You can set the button illumination color. (P.70)

■ Background
Changing background image or color. (P.70)

■ Viewing Angle
If it is hard to see the image on the screen even after adjusting the front panel angle, adjust the viewing angle. The smaller the (negative) value, the more whitish the image on the screen looks.
"0" (Default)/ "-1"/ "-2"/ "-3"

Customizing the key color
You can set the button illumination color.

1 Touch Key Color in the Display screen.
2 Touch the desired color.

■ User
The color you have set in the process of Adjust is registered.

■ Scan
You can set the key color to continuously scan through the color spectrum.

3 Touch .

To register original color
You can register your original color.

1 Touch User in the Key Color screen.
2 Touch Adjust.

3 Use — and + to adjust each color value.

Key Color RGB

4 Touch .

Change background image or color

1 Touch Background in the Display screen.
2 Select an image.

To select background color

1 Touch Background Color in the Background screen.
2 Select a background color.

To change background image or color

1 Touch Background in the Display screen.
2 Select an image.

*1 Select a background color in advance.
*2 Select an original image in advance.

*1 The color you have selected at Key Color is added on the image. If you select "Scan" at Key Color, you cannot select this image.

3 Touch .
To register original image
You can load an image from the connected USB device and set it for the background image.
Before operating this procedure, it is necessary to connect the device which has the image to load.

1 Touch User1 Select or User2 Select in the Background screen.

2 Select the image to load.

3 Touch Enter.

The selected image is loaded and the display returns to the Background screen.

NOTE
- Touching ◀ rotates counter clockwise.
- Touching ▶ rotates clockwise.
- Picture files: JPEG (.jpg, .jpeg), PNG (.png), BMP (.bmp)

AV Setup
You can set AV parameters.

1 Press the MENU button.
   ➤ Popup menu appears.

2 Touch SETUP.
   ➤ SETUP screen appears.

3 Touch AV.
   ➤ AV screen appears.

4 Set each item as follows.

   ■ AV-OUT
   You can select an AV source to be output from the AV OUTPUT port.
   OFF, AV-IN, DISC, USB, or iPod
   You cannot select iPod if it is connected via Bluetooth.
   If you select USB, iPod, Disc, Spotify, Pandora, Bluetooth audio, Apple CarPlay or Android Auto as the main source, you cannot select USB or iPod as the AV output source.

   ■ CarPlay Sidebar
   Select the position of the control bar (left or right) shown on the touch panel.
   "Left" (Default)/"Right"

   ■ OEM SETUP
   Confirm the information about/ change the settings for using the ADS adapter.
Controlling Audio

NOTICE

• Each operation in this section can be started from the multi function menu.

You can adjust the various settings such as audio balance or subwoofer level.

1 Press the MENU button.
   ➤ Popup menu appears.

2 Touch Audio.

   See the following section for each setting.
   • Set up speaker/ X’over (P.72)
   • Controlling equalizer (P.74)
   • Set listening position/ DTA (P.77)
   • Controlling general audio (Fader / Balance) (P.73)
   • Set volume offset (P.75)
   • Performing zone control (P.75)
   • Set sound effect (P.76)

Speaker/ X’over setup

1 Press the MENU button.
   ➤ Popup menu appears.

2 Touch Audio.
   ➤ Audio screen appears.

3 Touch Speaker/X’over.

4 Select a car type.
   You can setup the car type and speaker network, etc.
   If your car type is selected, the Delay Time Alignment is set automatically (for timing adjustment of sound output for each channel) to have the highest surround effects.

5 Touch the speaker (1) you wish to adjust and set each item (2) as follows.

Speaker
   You can select a speaker type and its size to get the best sound effects.
   When the speaker type and size are set, the speaker crossover network is set automatically.

Location (Only for Front, Rear)
   Select the speaker position you have fixed.
■ Tweeter (Only for Front)
You can set the tweeter when you are selecting front speakers.
None, Small, Medium, Large

■ X’over
Displays the speaker crossover setup screen.
You can adjust the crossover setup that was set automatically when you selected the speaker type.
For details, see Crossover network setup (P.73)

■ Crossover network setup
You can set a crossover frequency of speakers.
1 Touch X’over.
2 Touch the speaker to set.
3 Set each item as follows.

■ HPF FREQ
High Pass Filter adjustment. (When front or rear speaker is selected on Speaker Select screen)

■ LPF FREQ
Low Pass Filter adjustment. (When subwoofer is selected on Speaker Select screen)

■ Slope*1
Sets a crossover slope.

■ Gain
Adjusts the front speaker, rear speaker, or subwoofer level.

■ TW (Tweeter) Gain *2
Adjusts the tweeter level. (When front is selected on Speaker Select screen)

■ Phase Inversion*3
Sets the phase of subwoofer output.
Check Phase Inversion to shift the phase 180 degrees. (When subwoofer is selected on Speaker Select screen)

*1 Only when “LPF FREQ”/“HPF FREQ” is set to a mode other than “Through” in X’over.
*2 Only when “Tweeter” is set to “Small”, “Medium”, “Large” in Speaker Setup.
*3 Only when “Subwoofer” is set to a mode other than “None” in Speaker Setup.

Controlling General Audio

1 Press the MENU button.
   > Popup menu appears.
2 Touch Audio.
   > Audio screen appears.
3 Touch Fader / Balance.
4 Set each item as follows.

■ Fader / Balance
Adjust the volume balance around the touched area.
   ◀ and ▶ adjust the right and left volume balance.
   ▲ and ▼ adjust the front and rear volume balance.

■ Center
Clear the adjustment.
Equalizer Control

You can adjust equalizer by selecting the optimized setting for each category.

1. Press the [MENU] button.
   - Popup menu appears.
2. Touch [Audio].
   - Audio screen appears.
3. Touch [Equalizer].

4. Touch the screen and set the Graphic Equalizer as desired.

**Gain level (dotted frame area)**
Adjust the gain level by touching the each frequency bar.
You can select frequency bar and adjust its level by ▲, ▼.

**Preset Select**
Displays the screen to recall the preset equalizer curve.

**Memory**
Saves the adjusted equalizer curve from “User1” to “User4”.

**Initialize**
The current EQ curve returns to flat.

**ALL SRC**
Apply the adjusted equalizer to all sources.
Touch [ALL SRC] and then touch [OK] on the confirmation screen.

**Bass EXT (Bass Extend Settings)**
When turned on, the frequency lower than 62.5 Hz is set to the same gain level as 62.5 Hz.

**SW Level**
Adjusts the subwoofer volume. This setting is not available when subwoofer is set to “None”. See Speaker/ X’over setup (P.72).

**Recall the EQ curve**

1. Touch [Preset Select].
2. Select EQ curve.

**Save the EQ curve**

1. Adjust the EQ curve.
2. Touch [Memory].
3. Select where to save.

**NOTE**
- iPod is available only during iPod source.
**Volume Offset**

Finely adjust the volume of the current source to minimize the difference in volume between different sources.

1. Press the **MENU** button.  
   ➤ Popup menu appears.

2. Touch **Audio**.  
   ➤ Audio screen appears.

3. Touch **Volume Offset**.

4. Touch + or − to adjust the level.

   ![Volume Offset Screen]

   **Initialize**  
   Returns to the initial settings.

* If you have increased the volume first, then reduced the volume using the “Volume Offset”, the sound generated if you suddenly switch to another source may be extremely loud.

---

**Zone Control**

You can select different sources for both front and rear positions in the vehicle.

1. Press the **MENU** button.  
   ➤ Popup menu appears.

2. Touch **Audio**.  
   ➤ Audio screen appears.

3. Touch **Zone Control**.

4. Touch **Zone Select**.

5. Touch **Dual Zone**.

6. Set each source as follows.

   ![Zone Control Screen]

   **Zone Select**  
   Touch **Single Zone** to turn off the dual zone function.

   **Front Source** **Rear Source**  
   Select the audio source for each.

   **Rear VOL.**  
   Adjusts the rear source volume.
Controlling Audio

**NOTE**

• When the rear speaker sound is switched, the audio source that is output at the AV OUTPUT terminal is also switched to the same source.

• When the dual zone function is set to on, the following functions are not available.
  – Output from the subwoofer
  – Subwoofer Level/ Bass Boost *(P.76)*
  – Equalizer Control/ Sound Effect/ Listening Position *(P.74, 76, 77)*
  – Speaker Setup *(P.72)*
  – High-resolution Sound Source File Playback

• You cannot select iPod if it is connected via Bluetooth.

• If you select USB, iPod, Disc, Bluetooth audio, Apple CarPlay or Android Auto as the Front Source, you cannot select USB or iPod as the Rear Source.

---

### Sound Effect

You can set sound effects.

1. Press the **MENU** button.
   > Popup menu appears.

2. Touch **Audio**.
   > Audio screen appears.

3. Touch **Sound Effect**.

4. Set each item as follows.

<table>
<thead>
<tr>
<th>Sound Effect</th>
<th>Bass Boost</th>
<th>Supreme</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OFF</strong></td>
<td>1</td>
<td><strong>OFF</strong></td>
</tr>
<tr>
<td>2</td>
<td><strong>ON</strong></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td><strong>ON</strong></td>
<td></td>
</tr>
</tbody>
</table>

- **Bass Boost**
  Sets the amount of bass boost among “OFF”/ “1”/ “2”/ “3”.

- **Loudness**
  Sets the amounts of boost of low and high tones.
  “OFF”, “Low”, “High”

- **Drive Equalizer**
  Reduces the driving noise by raising the bandwidth.
  “OFF”, “ON”

- **Space Enhancer**
  Select the feeling of sound space enhancement.
  “OFF”/ “Small”/ “Medium”/ “Large”.
  This setting is not available during HD Radio tuner source.

- **Supreme**
  Turns ON/OFF the Supreme function.
  Technology to extrapolate and supplement with proprietary algorithm, the high-frequency range that is cut off when encoding.
Controlling Audio

■ Realizer
Virtually makes the sound more realistic using the Digital Signal Processor (DSP) system.
Select the level from “OFF”/“1”/“2”/“3”.

■ Stage EQ
You can adjust the height of speakers virtually to suit your listening position. “OFF”/“Low”/“Middle”/“High”.

Listening Position/DTA
Listening Position/DTA allows you to improve the sound field depending on the position of the seat you sit.
Listening Position/DTA allows you to set “Listening Position” and “Front Focus”. You cannot set both at the same time.

1 Press the MENU button.
   > Popup menu appears.

2 Touch Audio.
   > Audio screen appears.

3 Touch Position/DTA.

   • Set up Listening Position (P.77)
   • Set up Front Focus (P.78)

■ Listening Position
Adjust the sound delay time as nearer speakers to the selected seat have more delay time, so that the sound from each speaker arrive a listener at the same time.

1 Touch Listening Position in the Position/DTA screen.

2 Select listening position from Front R (Right front), Front L (Left front), Front All (All front), and All.

Position DTA control
You can fine-adjust your listening position.

1 Touch Adjust.

2 Touch Delay.

3 Touch ◀ or ▶ to adjust the delay time of the selected speaker.

4 Touch Level.

5 Touch ◀ or ▶ to adjust the sound level of the selected speaker.

NOTE
• To return to the initial setting of Delay and Level, touch Initialize and YES in the confirmation screen.
Controlling Audio

Front Focus
This is the function to focus the imaginary sound image in front of the selected seat.

1 Touch Front Focus in the Position/DTA screen.

2 Select a front focus position.
   For Front All and All, select Priority L or R depending on which side you want to put the imaginary sound image.

Front Focus fine adjustment

1 Touch Adjust.
2 Touch Delay.
3 Set each item as follows.

- Sound Image LR (Front)
  Adjust the sound image to focus on in front of front seats.

- Sound Image LR (Rear)
  Adjust the sound image to focus on in front of rear seats.

- Size of the Virtual Sound Field
  Adjust the size of sound image to meet your taste. If the sound image is shifted from the front, adjust it by Sound Image LR (Front) or Sound Image LR (Rear).

- Subwoofer Delay
  Adjust the delay time of subwoofer.

4 Touch Level.
5 Touch ◀ or ▶ to adjust the sound level of the selected speaker.

NOTE
- To return to the initial setting of Delay and Level, touch Initialize and YES in the confirmation screen.
Remote control

This unit can be operated using the remote control KNA-RCDV331 (optional accessory).

⚠️ CAUTION

• Put the remote control in a place where it will not move during braking or other operations. A dangerous situation could result, if the remote control falls down and gets wedged under the pedals while driving.
• Do not leave the battery near fire or under direct sunlight. A fire, explosion or excessive heat generation may result.
• Do not recharge, short, break up or heat the battery or place it in an open fire. Such actions may cause the battery to leak fluid. If spilled fluid comes in contact with your eyes or on clothing, immediately rinse with water and consult a physician.
• Place the battery out of reach of children. In the unlikely event that a child swallows the battery, immediately consult a physician.

Battery Installation

If the remote control operates only over shorter distances or does not operate at all, it is possible that the batteries are depleted. In such instances, replace the both batteries with new ones.

1. Insert two “AAA”/“R03”-size batteries with the ♦ and ♣ poles aligned properly, following the illustration inside the case.
Functions of the Remote control Buttons

Switch the operation mode
The functions operated from the remote control differ depending on the position of the mode switch.

- **AUD mode**
  Switch to this mode when controlling a selected source or tuner source, etc.

- **DVD mode**
  Switch to this mode when playing a disc media including DVD, VCD, and CD.

- **NAV mode**
  Not used.

- **TV mode**
  Not used.

**NOTE**
- When controlling a player that is not integrated in the unit, select “AUD” mode.

Direct search mode
Using the remote control, you can jump directly to the desired file, track chapter, etc. with entering the number corresponding to the content.

**NOTE**
- This operation cannot be performed for USB device and iPod.

1. Press the `#BS` button several times until the desired content appears.
   The available contents are different depending on the source.
   - **DVD**
     Title number/Chapter number
   - **VCD 1.X and 2.X (PBC OFF)**
     Track number
   - **VCD 2.X (PBC ON)**
     Scene number/Track number
   - **Music CD**
     Track number
   - **HD Radio tuner**
     Frequency value/Channel number
   - **SiriusXM**
     Channel number

2. Enter the number of the content you want to play using the numeric keypad.

3. For DVD or VCD, music CD, press the **ENTER** button.
   For radio, press the `◄` or `►` button.
   - The content you entered is played.
<table>
<thead>
<tr>
<th>Key Name</th>
<th>Mode switch</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRC</td>
<td>AUD</td>
<td>Switches to the source to be played. In hands-free mode, hangs up the phone.</td>
</tr>
<tr>
<td>NAV</td>
<td></td>
<td>Switches between the navigation and the source screens.</td>
</tr>
<tr>
<td>MENU</td>
<td>DVD</td>
<td>Stops playing and memorizes the last point where the disc stopped. The last point is deleted by pressing twice.</td>
</tr>
<tr>
<td>OUT, IN</td>
<td></td>
<td>Not used.</td>
</tr>
<tr>
<td>POSITION</td>
<td>AUD, DVD</td>
<td>Pauses the track or file, and resumes playing by pressing twice. During radio, HD Radio, and SiriusXM source in AUD mode, switches the seek mode.</td>
</tr>
<tr>
<td>Cursor Key</td>
<td>DVD</td>
<td>Moves the cursor in the DVD menu.</td>
</tr>
<tr>
<td>ENTER</td>
<td>AUD, DVD</td>
<td>Performs the selected function.</td>
</tr>
<tr>
<td>ROUTE M</td>
<td>AUD</td>
<td>Screen mode changes each time you press this key during video playback. DVD Returns to the DVD top menu.</td>
</tr>
<tr>
<td>VOICE</td>
<td>AUD</td>
<td>Displays the control screen of current source. (USB, iPod, DISC) DVD Displays the DVD menu. Turns the playback control on or off while playing VCD.</td>
</tr>
<tr>
<td>VIEW</td>
<td>AUD, DVD</td>
<td>Switches the AV source to be output.</td>
</tr>
<tr>
<td>MAP DIR</td>
<td>AUD, DVD</td>
<td>Switches the display angle each time it is pressed.</td>
</tr>
</tbody>
</table>
## Remote control

<table>
<thead>
<tr>
<th>Key Name</th>
<th>Mode switch</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 ▲/▼</td>
<td>AUD, DVD</td>
<td>Selects the folder to be played. During radio and HD Radio source in AUD mode, select FM/AM band to be received. During SiriusXM source in AUD mode, switches the bands to be received.</td>
</tr>
<tr>
<td>13 ◀▶</td>
<td>AUD, DVD</td>
<td>Selects the track or file to be played. During radio, HD Radio, and SiriusXM source in AUD mode, switches to broadcast stations received by the unit.</td>
</tr>
<tr>
<td>14 Numeric Keypad</td>
<td>AUD</td>
<td>Specifies the number to search in direct search. For details on the direct search mode, see <a href="#">Direct search mode (P.80)</a>.</td>
</tr>
<tr>
<td></td>
<td>DVD</td>
<td>• Press 1 2 to fast forward/backward. • Press 4 5 to slow forward/backward. Switches the slow playback speed each time you press this key.*</td>
</tr>
<tr>
<td></td>
<td>DVD</td>
<td>*DVD only</td>
</tr>
<tr>
<td>15 * +</td>
<td>DVD</td>
<td>Clears the number.</td>
</tr>
<tr>
<td>16 # BS</td>
<td>AUD, DVD</td>
<td>Switches to the direct search mode. For details on the direct search mode, see <a href="#">Direct search mode (P.80)</a>.</td>
</tr>
<tr>
<td>17 AUDIO</td>
<td>DVD</td>
<td>Switches the voice language each time you press this key.</td>
</tr>
<tr>
<td>18 CANCEL</td>
<td>DVD</td>
<td>Displays previous screen.</td>
</tr>
<tr>
<td>19 SUBTITLE</td>
<td>DVD</td>
<td>Switches the subtitle language.</td>
</tr>
<tr>
<td>20 ☎️</td>
<td>—</td>
<td>When a call comes in, answers the call.</td>
</tr>
<tr>
<td>21 ANGLE</td>
<td>DVD</td>
<td>Switches the picture angle each time you press this key.</td>
</tr>
<tr>
<td>22 Vol ▲▼</td>
<td>—</td>
<td>Adjusts the volume.</td>
</tr>
<tr>
<td>23 ZOOM</td>
<td>DVD</td>
<td>Switches the zoom ratio (2, 3, 4, Off) each time you press this key.</td>
</tr>
<tr>
<td>24 2 ZONE</td>
<td>AUD, DVD</td>
<td>Switches the Dual Zone function on and off.</td>
</tr>
<tr>
<td>25 R.VOL ▲▼</td>
<td>—</td>
<td>Adjusts volume at rear when the Dual Zone function is on.</td>
</tr>
<tr>
<td>26 ATT</td>
<td>—</td>
<td>Lowers the volume by pressing the key once. Restores the previous volume by pressing the key twice.</td>
</tr>
</tbody>
</table>
Before Installation

Before installation of this unit, please note the following precautions.

⚠️ WARNINGS

- If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.
- Do not cut out the fuse from the ignition wire (red) and the battery wire (yellow). The power supply must be connected to the wires via the fuse.

⚠️ CAUTION

- Install this unit in the console of your vehicle. Do not touch the metal part of this unit during and shortly after the use of the unit. Metal part such as the heat sink and enclosure become hot.

NOTE

- Mounting and wiring this product requires skills and experience. For best safety, leave the mounting and wiring work to professionals.
- Make sure to ground the unit to a negative 12V DC power supply.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.
- If the power is not turned ON (“There is an error in the speaker wiring. Please check the connections.” is displayed), the speaker wire may have a short-circuit or touched the chassis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.
- If your car’s ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, such as with battery wires, the battery may be drained.
- If the console has a lid, make sure to install the unit so that the front panel will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires aren’t touching to cause a short circuit, then replace the old fuse with one with the same rating.
- Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the wires or ground them to any metal part in the car.
- When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if you connect the connector of the left speaker to a front output terminal, do not connect the connector to a rear output terminal.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.
- This unit has the cooling fan to decrease the internal temperature. Do not mount the unit in a place where the cooling fan of the unit is blocked. Blocking these openings will inhibit the cooling of the internal temperature and result in malfunction.

Cooling fan
Connection/Installation

- Do not press hard on the panel surface when installing the unit to the vehicle. Otherwise scars, damage, or failure may result.
- Reception may drop if there are metal objects near the Bluetooth antenna.

Supplied accessories for installation

1. x1
2. (Black 1 m) x1
3. (Gray 1 m) x1
4. (3 m) x1
5. x2
6. (M5 x 8 mm) x6
7. (M5 x 8 mm) x6
8. [1] x1

[1] DDX9904S only
Installation procedure

1) To prevent a short circuit, remove the key from the ignition and disconnect the terminal of the battery.
2) Make the proper input and output wire connections for each unit.
3) Connect the speaker wires of the wiring harness.
4) Connect the wiring harness wires in the following order; ground, battery, ignition.
5) Connect the wiring harness connector to the unit.
6) Install the unit in your car.
7) Reconnect the terminal of the battery.
8) Perform the Initial Setup.
   See Initial setup (P.8).

Installing the unit

Non-Japanese cars (DDX9904S)

Bend the tabs of the mounting sleeve with a screwdriver or similar utensil and attach it in place.

Japanese cars

NOTE
- Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (e.g., the sound may skip).

Trim plate (DDX9904S)

1) Attach accessory to the unit.
GPS antenna

GPS antenna is installed inside of the car. It should be installed as horizontally as possible to allow easy reception of the GPS satellite signals.

To mount the GPS antenna inside your vehicle:
1) Clean your dashboard or other surface.
2) Remove the separator of the metal plate (accessory 9).
3) Press the metal plate (accessory 10) down firmly on your dashboard or other mounting surface. You can bend the metal plate (accessory 10) to conform to a curved surface, if necessary.
4) Remove the separator of the GPS antenna (accessory 9), and stick the antenna to the metal plate (accessory 10).

NOTE

- Depending on the type of car, reception of the GPS satellite signals might not be possible with an inside installation.
- Please install this GPS antenna in an area away from any antennas that are used with CB radios or satellite televisions.
- The GPS antenna should be installed at a position that is spaced at least 12 inch (30 cm) from cellular phone or other transmitting antennas. Signals from the GPS satellite may be interfered with by these types of communication.
- Painting the GPS antenna with (metallic) paint may cause a drop in performance.

Microphone unit

1) Check the installation position of the microphone (accessory 4).
2) Clean the installation surface.
3) Remove the separator of the microphone (accessory 4), and stick the microphone to the place shown below.
4) Wire the microphone cable up to the unit with it secured at several positions using tape or other desired method.
5) Adjust the direction of the microphone (accessory 4) to the driver.

Fix a cable with a commercial item of tape.
Removing the trim plate (DDX9904S)

1) Engage the catch pins on the extraction key (accessory 5) and remove the two locks on the lower level. Lower the trim plate (accessory 8) and pull it forward as shown in the figure.

NOTE
- The trim plate can be removed from the top side in the same manner.

2) When the lower level is removed, remove the upper two locations.

Removing the unit (DDX9904S)

1) Remove the trim plate by referring to step 1 in “Removing the trim plate”.
2) Insert the two extraction key (accessory 5) deeply into the slots on each side, as shown.
3) Lower the extraction key toward the bottom, and pull out the unit halfway while pressing towards the inside.

NOTE
- Be careful to avoid injury from the catch pins on the extraction key.

4) Pull the unit all the way out with your hands, being careful not to drop it.
Connecting wires to terminals

Connect to the vehicle's parking brake detection switch harness.

Accessory (1)

Light Green (Parking sensor wire) (2 m)

For best safety, be sure to connect the parking sensor.

Ignition key switch

ACC

Red (Ignition wire)

Yellow (Battery wire)

Car fuse box

Battery

Green/White

CAM–

Green/Red

CAM+

To CMOS-3xx series (Optional Accessory) camera control terminal

Purple/White

(Reverse sensor wire) (2 m)

Connect to vehicle's reverse lamp harness when using the optional rear view camera.

Speaker impedance: 4-8 Ω

White

White/Black

To front left speaker

White

White/Black

To front right speaker

Gray

Gray

To front right speaker

Gray/Black

Green

Green

To rear left speaker

Green/Black

Purple

Purple

To rear right speaker

Purple/Black

Blue/White

(Power control wire)

When using the optional power amplifier, connect to its power control terminal. (Max. 200mA, 12V)

Light Blue/Yellow

(Steering remote control wire)

To steering remote

To use the steering wheel remote control feature, you need an exclusive remote adapter (not supplied) matched to your car.

Orange/White

(Dimmer control wire)

To car light control switch

Blue

Antenna control wire)

Depending on what antenna you are using, connect either to the control terminal of the motor antenna, or to the power terminal for the booster amplifier of the film-type antenna. (Max. 300mA, 12V)

Purple

Green/White

Green/Red

To CMOS-3xx series (Optional Accessory) camera control terminal

Ignition key switch

ACC

Red (Ignition wire)

Yellow (Battery wire)

Car fuse box

Battery

Green/White

Purple/Black

(Reverse sensor wire) (2 m)

Connect to vehicle's reverse lamp harness when using the optional rear view camera.

For best safety, be sure to connect the parking sensor.

If no connections are made, do not let the cable come out from the tab.

Accessory (1)

Light Green (Parking sensor wire) (2 m)

For best safety, be sure to connect the parking sensor.

Ignition key switch

ACC

Red (Ignition wire)

Yellow (Battery wire)

Car fuse box

Battery

Green/White

CAM–

Green/Red

CAM+

To CMOS-3xx series (Optional Accessory) camera control terminal

Purple/White

(Reverse sensor wire) (2 m)

Connect to vehicle's reverse lamp harness when using the optional rear view camera.

Speaker impedance: 4-8 Ω

White

White/Black

To front left speaker

White

White/Black

To front right speaker

Gray

Gray

To front right speaker

Gray/Black

Green

Green

To rear left speaker

Green/Black

Purple

Purple

To rear right speaker

Purple/Black

Blue/White

(Power control wire)

When using the optional power amplifier, connect to its power control terminal. (Max. 200mA, 12V)

Light Blue/Yellow

(Steering remote control wire)

To steering remote

To use the steering wheel remote control feature, you need an exclusive remote adapter (not supplied) matched to your car.

Orange/White

(Dimmer control wire)

To car light control switch

Blue

Antenna control wire)

Depending on what antenna you are using, connect either to the control terminal of the motor antenna, or to the power terminal for the booster amplifier of the film-type antenna. (Max. 300mA, 12V)
Connecting the system and external components

1. AV Audio output (ø3.5 mini jack)
2. FM/AM antenna input

3. When connecting to an external amplifier, connect its ground wire to the car’s chassis to avoid damaging the unit.
   - Rear Audio Preout (Left; White, Right; Red)
   - Front Audio Preout (Left; White, Right; Red)
   - Subwoofer Preout (Left; White, Right; Red)

4. SiriusXM Connect Vehicle Tuner connector
5. iDatalink connector
6. AV-IN (CA-C3AV, Optional Accessory) input
7. Dashboard camera interface
   - Connect a Dashboard Camera DRV-N520 (optional accessory). (P.90)
8. Accessory ⑨: GPS Antenna
9. Accessory ⑩: Bluetooth Microphone
10. Rear view camera input (Yellow)

Connecting a USB device

- USB device⑪
- USB (Gray) terminal⑫
- USB (Black) terminal⑬

1. USB maximum power supply current: DC 5 V = 1.5 A
2. Sold separately / Use CA-U1EX to extend the cable if necessary. (Max 500 mA, 5V)
3. See Securing the USB extension cable (P.89).

Securing the USB extension cable

Secure the USB extension cable with insulating tape or the like so that its connectors are not disconnected.
Connecting an iPod/iPhone

- Lightning connector

- iPod/iPhone

- Micro USB to USB cable

- USB (Gray) terminal

- USB (Black) terminal

- KCA-iP103 (0.8m)

- Accessory (Gray) (1 m)

- Accessory (Black) (1 m)

- iPhone (with CarPlay)

- KCA-iP103 (0.8m)

- Accessory (Gray) (1 m)

- Accessory (Black) (1 m)

- USB (Gray) terminal

- USB (Black) terminal

- iPod/iPhone

- Micro USB to USB cable

- USB (Gray) terminal

- USB (Black) terminal

- KCA-iP103 (0.8m)

- Accessory (Gray) (1 m)

- Accessory (Black) (1 m)

- iPhone (with CarPlay)

[1] USB maximum power supply current: DC 5 V = 1.5 A

[2] Sold separately

[3] Optional accessory


Connecting an Android smartphone

- Android smartphone

- Micro USB to USB cable

- USB (Gray) terminal

- USB (Black) terminal

- Accessory (Gray) (1 m)

- Accessory (Black) (1 m)

- USB (Gray) terminal

- USB (Black) terminal

- Android smartphone

- Micro USB to USB cable

- USB (Gray) terminal

- USB (Black) terminal

- Accessory (Gray) (1 m)

- Accessory (Black) (1 m)

- USB (Gray) terminal

- USB (Black) terminal

- Android smartphone

- Micro USB to USB cable

- USB (Gray) terminal

- USB (Black) terminal

- Accessory (Gray) (1 m)

- Accessory (Black) (1 m)

- USB (Gray) terminal

- USB (Black) terminal

- Android smartphone

[1] USB maximum power supply current: DC 5 V = 1.5 A

[2] Sold separately


Connecting a Dashboard camera

- DRV-N520

- Front view camera/ Dashboard camera input (Yellow)

- Dashboard camera interface

[1] Optional accessory
## Troubleshooting

### Problems and Solutions

If any trouble occurs, first check the following table for possible problems.

**NOTE**

- Some functions of this unit may be disabled by some settings made on this unit.
- What might seem to be a malfunction in your unit may just be the result of slight misoperation or miswiring.

### About settings

- **Cannot set up the subwoofer.**
- **Cannot set up subwoofer phase.**
- **No output from the subwoofer.**
- **Cannot set up the low pass filter.**
- **Cannot set up the high pass filter.**

  Subwoofer is not set to on.

  - Set the subwoofer to on. See Speaker/X'over setup (P.72).
  
  The dual zone function is enabled.

  - Set the dual zone function to off. See Zone Control (P.75).

- **Cannot select the output destination of the subsource in the dual zone.**
- **Cannot adjust the volume of the rear speakers.**

  The dual zone function is disabled.

  - Set the dual zone function to on. See Zone Control (P.75).

- **Cannot set up the equalizer.**
- **Cannot set up the crossover network.**

  The dual zone function is enabled.

  - Set the dual zone function to off. See Zone Control (P.75).

### About audio operations

#### Radio reception is poor.

The car antenna is not extended.

- Pull out the antenna all the way.

  The antenna control wire is not connected.

  - Connect the wire correctly. See Connecting the system and external components (P.89).

- **Cannot select a folder.**

  The random play function is enabled.

  - Turn off the random function.

- **Cannot perform repeat play during VCD playback.**

  The PBC function is enabled.

  - Turn off the PBC function.

#### The specified disc does not play, but another one plays instead.

- The disc is quite dirty.
  - Clean the disc. See Precautions on handling discs (P.4).
- The disc is severely scratched.
  - Try another disc instead.

#### The sound skips when an audio file is being played.

- The disc is scratched or dirty.
  - Clean the disc. See Precautions on handling discs (P.4).
- The recording condition is bad.
  - Record the file again or use another disc.

### Other

#### The Touch Sensor Tone doesn’t sound.

The preout jack is being used.

- The Touch Sensor Tone cannot be output from the preout jack.

#### Android smartphone operation is slow.

This occurs when multiple applications are started on the Android smartphone.

- For details, see Caution for Smartphone Users (P.5).

### Error Messages

When you fail to operate the unit correctly, the cause of the failure appears as the message on the screen.

#### Error Messages

- **There is an error in the speaker wiring. Please check the connections.**

  Protective circuit has been activated because a speaker cord has shorted or it has come in contact with the car chassis.

  - Wire or insulate the speaker cord as appropriate and turn the power off and on again.

- **Hot Error**

  When the internal temperature of this unit rises to 60°C or more, the protection circuit is activated and you may not be able to operate the unit.

  - Use the unit again after reducing the temperature of the unit.

- **Mecha Error**

  The disc player is malfunctioning.

  - Eject the disc and try inserting it again. Contact the KENWOOD dealer if this indicator continues blinking or the disc cannot be ejected.
Troubleshooting

Disc Error
An unplayable disc is inserted.
▷ Change the disc. See *Playable Media and Files (P.93).*

Read Error
The disc is quite dirty.
▷ Clean the disc. See *Precautions on handling discs (P.4).*
Disc is upside down.
▷ Load the disc with the labeled side up.

Region Code Error
The disc you wanted to play has a region code that cannot be played with this unit.
▷ See *Region Codes in the World (P.95)* or try another disc.

Error 07–67
The unit is not operating correctly due to some reason or other.
▷ Turn the power off and on again. If the “Error 07–67” message does not disappear, see your nearest KENWOOD dealer.

No Device (USB device)
The USB device is selected as a source although no USB device is connected.
▷ Change the source to any source other than USB/iPod. Connect a USB device, and change the source to USB again.

Disconnected (iPod, Bluetooth audio player)
The iPod/Bluetooth audio player is selected as a source although no iPod/Bluetooth audio player is connected.
▷ Change the source to any source other than iPod/Bluetooth. Connect an iPod/Bluetooth audio player, and change the source to iPod/Bluetooth again.

No Media file
The connected USB device contains no playable audio file. Media was played that doesn’t have data recorded that the unit can play.
▷ See *Playable Media and Files (P.93)* and try another USB device.

USB device over current status detected.
The connected USB device is rated a current capacity higher than the allowable limit.
▷ Check the USB device. Some trouble may have occurred to the connected USB device.
▷ Change the source to any source other than USB. Remove the USB device.

SiriusXM

Check Tuner
A SiriusXM tuner is not connected to this unit.
▷ Verify that the SiriusXM Connect Vehicle Tuner cable is securely connected to the radio.

Subscription Updated - Press Return To Continue
The SiriusXM subscription has been renewed.
▷ Pressing the Control knob will clear the message.

SXM Chan Unavailable
The currently selected channel is unavailable.
▷ —

SXM Ch Unsubscribed
The currently selected channel is not subscribed to.
▷ —

SXM Check Antenna
No antenna is connected to the SiriusXM tuner.
▷ Check that an antenna is connected to the SiriusXM tuner. Check antenna for damages.

SXM No Signal
No SiriusXM radio signal is received.
▷ Verify that your vehicle is outdoors with a clear view of the sky.

Channel Locked
The selected channel has been locked by the parental controls.
▷ Enter the unlock code when you are asked. See *Parental Control (P.49).*

Incorrect Pass Code entered
The selected channel is a mature or parental lock channel, and locked by the parental lock or user lock code.
▷ Enter the correct lock code.
Appendix

Playable Media and Files

You can play various kinds of media and files on this unit.

List of playable discs (DDX9904S/ DDX9704S)

<table>
<thead>
<tr>
<th>Disc types / Standard</th>
<th>Support</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD Video</td>
<td>○</td>
<td></td>
</tr>
<tr>
<td>DVD Audio</td>
<td>×</td>
<td></td>
</tr>
<tr>
<td>DVD-VR</td>
<td>×</td>
<td></td>
</tr>
</tbody>
</table>
| DVD-R*1               | ○       | • MP3/ WMA/ AAC/ WAV/ FLAC/ Vorbis/ MPEG1/ MPEG2/ MPEG4/ H.264/ WMV/ MKV playback  
|                       |         | • Multi-border/Multisession playback (Playback depends on authoring conditions) |
| DVD-RW                | ○       |        |
| DVD+R                 | ○       |        |
| DVD+RW                | ○       |        |
| DVD-R DL (Double layer) | ○  | Only video format |
| DVD+R DL (Double layer) | ○  |        |
| DVD-RAM               | ×       |        |
| Music CD*1            | ○       |        |
| CD-ROM                | ○       | • MP3/ WMA/ AAC/ WAV/ FLAC/ Vorbis playback  
|                       |         | • Multisession is supported.  
|                       |         | • Packet write is not supported. |
| CD-R                  | ○       |        |
| CD-RW                 | ○       |        |
| DTS-CD                | ×       |        |
| Video CD (VCD)        | ○       |        |
| Super video CD        | ×       |        |
| Photo CD              | ×       |        |
| CD-EXTRA              | △       | Only music CD session can be played. |
| HCD                   | △       | Normal music CD sound quality |
| CCCD                  | ×       |        |
| Others                |         |        |
| DualDisc              | ×       |        |
| Super audio CD        | △       | Only CD layer can be played. |

○ : Playback is possible.  
△ : Playback is partly possible.  
× : Playback is impossible.

*1 Incompatible with 8 cm (3 inch) discs.

Use of DualDisc

When playing a “DualDisc” on this unit, the surface of the disc that is not played may be scratched while the disc is inserted or ejected. Since the music CD surface does not conform to the CD standard, playback may be impossible. (A “DualDisc” is a disc with one surface containing DVD standard signals and the other surface containing music CD signals.)

About disc format

The disc format should be the one of the following.

• ISO 9660 Level 1/2  
• Joliet  
• Romeo  
• Long file name
Appendix

About files

The following audio, video, and picture files are supported.

## Playable Audio files

<table>
<thead>
<tr>
<th>Format</th>
<th>Playable Audio files</th>
<th>Sampling frequency</th>
<th>Bit count</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAC-LC (.m4a)</td>
<td>AAC/LC HE-AAC(V1,V2)</td>
<td>8 – 320kbps, VBR</td>
<td>16 – 48 kHz</td>
</tr>
<tr>
<td>MP3 (.mp3)</td>
<td>MP3 1/2 Audio Layer 3</td>
<td>8 – 320kbps, VBR</td>
<td>16 – 48 kHz</td>
</tr>
<tr>
<td>WMA (.wma)</td>
<td>Windows Media Audio</td>
<td>8 – 320kbps</td>
<td>16 – 48 kHz</td>
</tr>
<tr>
<td>Linear PCM (WAVE) (.wav)</td>
<td>RIFF waveform Audio Format</td>
<td>–</td>
<td>16 – 48 kHz (Disc), 16 – 192 kHz (USB)</td>
</tr>
<tr>
<td>FLAC (.flac)</td>
<td>flac</td>
<td>–</td>
<td>16 – 48 kHz (Disc), 16 – 192 kHz (USB)</td>
</tr>
<tr>
<td>Vorbis (.ogg)</td>
<td>vorbis</td>
<td>VBR</td>
<td>16 – 48 kHz</td>
</tr>
<tr>
<td>DSD (.dsf, .dff)</td>
<td>DSF</td>
<td></td>
<td>2.8 MHz, 5.6 MHz, 11.2 MHz</td>
</tr>
</tbody>
</table>

**NOTE**

- If music of normal CD and other playback systems are recorded in the same disc, only the playback system recorded at the first setout is played.
- WMA and AAC of which is covered with DRM cannot be played.
- DSD sound is converted to PCM sound before playback.
- The EmChinks tag of DSDIFF is not supported.
- Although the audio files are complied with the standards listed above, the play may be impossible depending on the types or conditions of media or device.

## Acceptable Video files

<table>
<thead>
<tr>
<th>Profile</th>
<th>Max. Picture size</th>
<th>Max. bit rate</th>
<th>Audio format</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPEG-1 (.mpg, .mpeg)</td>
<td>352 × 240, 352 × 288</td>
<td>1.5 Mbps</td>
<td>MPEG Audio Layer 2</td>
</tr>
<tr>
<td>MPEG-2 (.mpg, .mpeg)</td>
<td>720 × 480, 720 × 576</td>
<td>8 Mbps</td>
<td>MPEG Audio Layer 2</td>
</tr>
<tr>
<td>H.264/MPEG-4 AVC (.mp4, .m4v, .avi, .flv, .f4v)</td>
<td>Baseline Profile, Main Profile</td>
<td>1920 × 1080 (30 fps)</td>
<td>8 Mbps</td>
</tr>
<tr>
<td>MPEG-4 (.mp4, .avi)</td>
<td>Advanced Simple Profile</td>
<td>1920 × 1080 (30 fps)</td>
<td>8 Mbps</td>
</tr>
<tr>
<td>WMV (.wmv)</td>
<td>Main Profile</td>
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## Limitation of structure for the file and the folder

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**NOTE**

- You can enter a folder name and file name with 255 or fewer single-byte characters.
- Files in the folder whose folder name begins with a dot (.) cannot be played.
Region Codes in the World

The DVD players are given a region code according to the country or area it is marketed, as shown in the following map.

**■ DVD disc marks**

![ALL](image)

Indicates a region number. The discs with this mark can be played with any DVD player.

![8](image)

Indicates the number of audio languages recorded. Up to 8 languages can be recorded in a movie. You can select a favorite language.

![32](image)

Indicates the number of subtitled languages recorded. Up to 32 languages can be recorded.

![9](image)

If a DVD disc has scenes shot from multiple angles, you can select a favorite angle.

![16:9 LB](image)

Indicates the type of screen for the image. The left mark indicates that a wide image picture (16:9) is displayed on a standard TV set screen (4:3) with a black band at both the top and bottom of the screen (letter box).

**■ Operation regulatory marks**

With this DVD, some functions of this unit such as the play function may be restricted depending on the location where the DVD is playing. In this case, the following marks will appear on the screen. For more information, refer to the disc manual.

![Prohibition Mark](image)

**■ Discs with limited period of use**

Do not leave discs with a limited period of use in this unit. If you load an already expired disc, you may not be able to remove it from this unit.
## DVD Language Codes

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</table>
Specifications

■ Monitor section

Picture Size
- 6.95 inches (diagonal) wide
- 156.6 mm (W) × 81.6 mm (H)
- 6-3/16 × 3-3/16 inch

Display System
- TN LCD panel

Drive System
- TFT active matrix system

Number of Pixels
- 1,152,000 (800H x 480V x RGB)

Effective Pixels
- 99.99 %

Pixel Arrangement
- RGB striped arrangement

Back Lighting
- LED

■ DVD player section

(DDX9904S/ DDX9704S)

D/A Converter
- 24/ 32 bit

Audio Decoder
- Linear PCM/ Dolby Digital/ MP3/ WMA/ AAC/ WAV/
  FLAC/ Vorbis

Video Decoder
- MPEG1/ MPEG2/ MPEG4/ WMV/ H.264/ MKV

Wow & Flutter
- Below Measurable Limit

Frequency Response
- 96 kHz : 20 – 44,000 Hz
- 48 kHz : 20 – 22,000 Hz
- 44.1 kHz : 20 – 20,000 Hz

Total Harmonic Distortion
- 0.010 % (1 kHz)

S/N Ratio (dB)
- 90.5 dB

Dynamic Range
- 89 dB

Disc Format
- DVD-Video/ VIDEO-CD/ CD-DA

Quantifying Bit Number
- 16/ 20/ 24 bit

■ USB interface section

USB Standard
- USB 2.0 High Speed

File System
- FAT 16/ 32, exFAT, NTFS

Maximum Power Supply Current
- DC 5 V ± 1.5 A × 2

D/A Converter
- 24/ 32 bit

Audio Decoder
- MP3/ WMA/ AAC/ WAV/ FLAC/ Vorbis/ DSD

Video Decoder
- MPEG1/ MPEG2/ MPEG4/ WMV/ H.264/ MKV

Frequency Response (DMX7704S)
- 192 kHz : 20 – 88,000 Hz
- 96 kHz : 20 – 44,000 Hz
- 48 kHz : 20 – 22,000 Hz
- 44.1 kHz : 20 – 20,000 Hz

Total Harmonic Distortion (DMX7704S)
- 0.0001 % (1 kHz)

S/N Ratio (dB) (DMX7704S)
- 98.5 dB

Dynamic Range (DMX7704S)
- 89 dB

■ Bluetooth section

Technology
- Bluetooth Ver.3.0

Frequency
- 2.402 – 2.480 GHz

Output Power
- +4dBm (MAX), 0dBm (AVE), Power Class2

Maximum Communication range
- Line of sight approx. 10m (32.8 ft)

Audio Codec
- SBC/ AAC

Profile (Multi Profile support)
- HFP (V1.6) (Hands Free Profile)
- SPP (Serial Port Profile)
- A2DP (Advanced Audio Distribution Profile)
- AVRCP (V1.5) (Audio/Video Remote Control Profile)
- PBAP (Phonebook Access Profile)
Appendix

■ DSP section

Graphics equalizer
Band: 13 Band
Frequency (BAND1 – 13):
62.5/ 100/ 160/ 250/ 400/ 630/ 1k/ 1.6k/ 2.5k/ 4k/ 6.3k/ 10k/ 16k Hz
Gain:
-9/-8/-7/-6/-5/-4/-3/-2/-1/0/1/2/3/4/5/6/7/8/9 dB

2Way X’Over
High pass filter
Frequency: Through, 30/ 40/ 50/ 60/ 70/ 80/ 90/ 100/ 120/ 150/ 180/ 220/ 250 Hz
Slope: -6/-12/-18/-24 dB/Oct.
Low pass filter
Frequency: 30/ 40/ 50/ 60/ 70/ 80/ 90/ 100/ 120/ 150/ 180/ 220/ 250 Hz, Through
Slope: -6/-12/-18/-24 dB/Oct.

Position
Front / Rear / Subwoofer Delay
: 0 – 20.01 ft (0.03 or 0.04 ft Step)
Gain:
-8 – 0 dB
Subwoofer level:
-50 – +10 dB

■ Digital FM tuner section

Frequency Range (step):
87.9 MHz – 107.9 MHz (200 kHz)
Frequency Response (± 3.0 dB):
20 Hz – 20 kHz
S/N Ratio:
80 dB (STEREO)

■ Digital AM tuner section

Frequency Range (step):
530 kHz – 1700 kHz (10 kHz)
Frequency Response (± 3.0 dB):
40 Hz – 15 kHz
S/N Ratio (dB):
80 dB (STEREO)

■ FM tuner section

Frequency Range (step):
87.9 MHz – 107.9 MHz (200 kHz)
Usable Sensitivity (S/N : 30 dB):
9.3 dBf (0.8 μV/ 75 Ω)
Quieting Sensitivity (S/N : 50 dB):
10.2 dBf (1.13 μV/ 75 Ω)
Frequency Response:
30 Hz – 15 kHz
S/N Ratio (dB):
75 dB (MONO)
Selectivity (± 400 kHz):
Over 80 dB
Stereo Separation:
45 dB (1 kHz)

■ AM tuner section

Frequency Range (step):
530 kHz – 1700 kHz (10 kHz)
Usable Sensitivity:
28 dBμ

■ Video section

Color System of External Video Input:
NTSC
External Video Input Level (mini jack):
1 Vp-p/ 75 Ω
External Audio Max Input Level (mini jack):
2 V/ 25 kΩ
Video Input Level (RCA jacks):
1 Vp-p/ 75 Ω
Video Output Level (RCA jacks):
1 Vp-p/ 75 Ω
Audio Output Level (mini jack):
1.2 V/ 10 kΩ
### Audio section

**Maximum Power (Front & Rear)**
- 50 W × 4

**Typical Power Output (Front & Rear)**
- Full Bandwidth Power (at less than 1% THD): 22 W × 4

**Output frequency band**
- 20 – 88,000 Hz

**Preout Level (V)**
- DDX9904S: 5 V/10 kΩ
- DDX9704S/DMX7704S: 4 V/10 kΩ

**Preout Impedance**
- ≤ 300 Ω

**Speaker Impedance**
- 4 – 8 Ω

### General

**Operating Voltage**
- 14.4 V (10.5 – 16 V allowable)

**Maximum Current Consumption**
- 15 A

**Installation Dimensions (W × H × D)**
- DDX9904S: 182 × 112 × 163 mm
  - 7-3/16 × 4-7/16 × 6-7/16 inch
- DDX9704S: 178 × 100 × 160 mm
  - 7 × 3-15/16 × 6-5/16 inch
- DMX7704S: 178 × 100 × 155 mm
  - 7 × 3-15/16 × 6-1/8 inch

**Operational Temperature Range**
- -10 °C – +60 °C

**Weight**
- DDX9904S/DMX7704S: 2.4 kg (5.29 lbs)
- DMX7704S: 1.7 kg (3.75 lbs)

### About this Unit

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### FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

<table>
<thead>
<tr>
<th><strong>NOTE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.</td>
</tr>
<tr>
<td>• This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:</td>
</tr>
<tr>
<td>– Reorient or relocate the receiving antenna.</td>
</tr>
<tr>
<td>– Increase the separation between the equipment and receiver.</td>
</tr>
<tr>
<td>– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.</td>
</tr>
<tr>
<td>– Consult the dealer or an experienced radio/TV technician for help.</td>
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</tbody>
</table>

### CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

JVC KENWOOD Corporation
2967-3, ISHIKAWA-MACHI, HACHIOJI-SHI, TOKYO, JAPAN

THIS PRODUCT COMPLIES WITH DHHS RULES 21 CFR SUBCHAPTER J IN EFFECT AT DATE OF MANUFACTURE.

Location: Bottom plate (DDX9904S)
Top plate (DDX9704S/ DMX7704S)
IC (Industry Canada) Notice
This device complies with Industry Canada licence-exempt RSS standard(s).
Operation is subject to the following two conditions:
(1) This device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.
The term “IC: ” before the certification/registration number only signifies that the Industry Canada technical specification were met.

⚠️ CAUTION
This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20cm or more away from person’s body (excluding extremities: hands, wrists, feet and ankles).

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

- Contains Transmitter Module
  FCC ID: ZWY8811X
- Contains Transmitter Module
  IC: 12033A-8811X

CALIFORNIA, USA
This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material – special handling may apply.
See www.dtsc.ca.gov/hazardouswaste/perchlorate.

Información acerca de la eliminación de equipos eléctricos y electrónicos al final de la vida útil (aplicable a los países que hayan adoptado sistemas independientes de recogida de residuos)

Los productos con el símbolo de un contenedor con ruedas tachado no podrán ser desechados como residuos domésticos.

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