KENWOOD

DDX9903S DDX9703S DDX6903S DDX6703S DDX9716BTS DDX916WSL

MONITOR WITH DVD RECEIVER

INSTRUCTION MANUAL

JVCKENWOOD Corporation

























HD2/HD3

Bookmark

Digital Sound

Program Info

Artist Experience

Emergency Alerts

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 DVD-receiver.

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 DDX9903S/DDX9703S/DDX6903S/DDX6703S Serial number

US Residents Only

Register Online

Register your Kenwood product at www.Kenwoodusa.com

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How to read this manual:

- Illustrations of DDX9903S are mainly used for explanation. The displays 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 displays or panels.
- This manual mainly explains operations using the buttons on the monitor panel and touch panel. For
 operations using the remote controller (RC-DV340: supplied only for DDX9716BTS/DDX916WSL), see
 page 77.
- <> indicates the various screens/menus/settings that appear on the touch panel.
- [] indicates the buttons/selectable items on the touch panel.
- Indication language: English indications are used for the purpose of explanation. You can select the indication language from the **<SETUP>** menu. (Page 75)
- Updated information (the latest Instruction Manual, system updates, new functions, etc.) is available from http://www.kenwood.com/cs/ce/>.

BEFORE USE

IMPORTANT

To ensure proper use, please read through this manual before using this product. It is especially important that you read and observe WARNINGS and CAUTIONS in this manual. Please keep the manual in a safe and accessible place for future reference.

- DO NOT install any unit or wire any cable in a location where:
 - it may obstruct the steering wheel and gearshift lever operations.
 - it may obstruct the operation of safety devices such as air bags.
 - it may obstruct visibility.
- DO NOT operate the unit while driving.
 If you need to operate the unit while driving, be sure to look around carefully.
- The driver must not watch the monitor while driving.

For DDX9716BTS/DDX916WSL: The marking of products using lasers



The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

BEFORE USE

For DDX9903S/DDX9703S/DDX6903S/DDX6703S: \triangle 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, the 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 21CFR SUBCHAPTER J IN EFFECT AT DATE OF MANUFACTURE.

Location: Top plate

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.

FCC NOTE

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.

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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For DDX9903S/DDX9703S/DDX6903S/DDX6703S: IC (Industry Canada) Notice

This device complies with Industry Canada licenseexempt 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 20 cm 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: 7WY8811X
- Contains Transmitter Module IC: 12033A-8811X

⚠ Cautions on the monitor:

- The monitor built into this unit has been produced with high precision, but it may have some ineffective dots. This is inevitable and is not considered defective.
- · Do not expose the monitor to direct sunlight.
- Do not operate the touch panel using a ball-point pen or similar tool with a sharp tip.
 Touch the buttons on the touch panel with your finger directly (if you are wearing a glove, take it off).
- · When the temperature is very cold or very hot...
- Chemical changes occur inside, causing malfunction.
- Pictures may not appear clearly or may move slowly. Pictures may not be synchronized with the sound or picture quality may decline in such environments.

For safety...

- Do not raise the volume level too much, as this will make driving dangerous by blocking outside sounds, and may cause hearing loss.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

INITIAL SETTINGS

Initial setup

When you power on the unit for the first time, the initial setting screen appears.

- You can also change the settings on the <SETUP> screen. (Page 74)
- 1 Perform the initial settings. Touch the desired item to configure the setting.
 - You can scroll the screen by touching [▲]/[▼] to show more items.
 - If another setting screen is displayed, set the item, then touch [] to return to previous screen.



Select the text language used [Language] for on-screen information. (Page 75) Touch [Language Select]. then select the desired language. [Clock] Calendar/clock settings. (Page 6) Select the color of the [Color] buttons on the monitor panel. (Page 71) • Touch [Panel Color], then select the desired color. Configure settings for the [Camera]

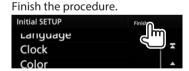
connected camera. (Page 47)

[OEM Configure settings for ADS

SETUP]* adapter. (Page 75)

[DEMO] Activate ([ON]) or deactivate
([OFF]) the display

demonstration. (Page 76)



The Home screen is displayed.

Only for DDX9903S/DDX9703S/DDX6903S/DDX6703S.

Setting the security function

□ Registering the security code (Only for DDX9716BTS/DDX916WSL)

You can set a security code to protect your receiver system against theft.

1 Display the source/option selection screen. On the Home screen or the source control screen:



2 Display the **<SETUP>** screen.



INITIAL SETTINGS

3 Display the <Security> screen.



4 Display the <Security Code Set> screen.



5 Enter a four-digit number (1), then confirm the entry (2).



• Touch [to delete the last entry.

6 Repeat step **5** to confirm your security code.

Now, your security code is registered.

- To return to the Home screen, press HOME on the monitor panel, or touch [] to the return to the previous screen.
- When the unit is disconnected from the battery, you are required to enter the security code. Enter the correct security code, then confirm the entry.

To change the security code: Touch [Security Code Change] on the <Security> screen, then repeat steps 5 and 6.

To clear the security code: Touch [Security Code Cancellation] on the <Security> screen.

☐ Activating the security function (Only for DDX9903S/DDS9703S/DDX6903S/DDX6703S/DDX9716BTS

You can activate the security function to protect your receiver system against theft.

- 1 Display the **<Security>** screen. (Page 4)
- 2 Activate the security function. Each time you touch [SI], the function is activated ([ON]) or deactivated ([OFF]).



The security indicator on the monitor panel flashes when the vehicle ignition is off.

 To return to the Home screen, press HOME on the monitor panel, or touch [] to return to the previous screen.

To deactivate the security function: Touch **[SI]** to select **[OFF]**.

INITIAL SETTINGS

Calendar/clock settings

1 Display the source/option selection screen. On the Home screen or the source control screen:



2 Display the **<SETUP>** screen.



3 Display the <User Interface> screen.



- 4 Select the method to set the clock.
 - Scroll the page to show the item.



[GPS-SYNC] Synchronizes the clock time with the GPS.

[Manual] Sets the clock manually. (See the right column.)

- To close the window, touch [Close].
- 5 Select the appropriate time zone for [Time Zone].



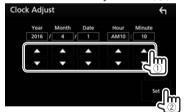
 To return to the Home screen, press HOME on the monitor panel, or touch [←] to return to the previous screen.

To adjust the clock manually (when selecting [Manual] on the <Clock> window)

- 1 Display the <Clock Adjust> screen. On the <User Interface> screen (see the far left column):
 - Scroll the page to show the item.



2 Set the calendar and the clock time (1), then confirm the adjustment (2).

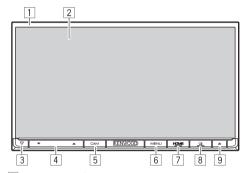


Component names and functions

⚠ Caution on the volume setting:

Digital devices produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

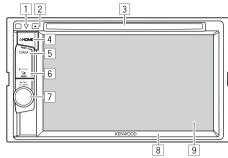
DDX9903S/DDX9703S/DDX9716BTS



- 1 Monitor panel*
- 2 Screen (touch panel)
- 3 Power indicator/Security indicator
 - · Lights up while the unit is turned on.
 - Flashes when the security function is activated. (Page 5)
- 4 VOLUME ▼/▲ button Adjusts the audio volume. (Page 9)

- 5 CAM button
 - Displays the picture from the connected camera. (Press) (Page 48)
- 6 MENU button
 Displays the pop-up short-cut menu. (Press)
 (Page 14)
- 7 HOME/也 button
 - Displays the Home screen. (Press) (Page 10)
 - Turns on the power. (Press) (Page 9)
 - Turns off the power. (Hold) (Page 9)
- 8 **□■**/VOICE button
 - Displays the App (CarPlay/ Android Auto/ Mirroring) screen. (Press) (Pages 25 and 27)
 - Activates the voice control function. (Hold)
 - When a Bluetooth mobile phone is connected: Activates the voice dialing. (Page 59)
 - When an Android device compatible with Android Auto is connected: Activates voice control. (Page 25)
 - When iPod/iPhone compatible with Apple CarPlay is connected: Activates Siri. (Page 26)
- 9 ▲ (Eject) button
 - Displays the <Angle Adjust> screen. (Press) (Page 9)
 - Forcibly ejects the disc. (Hold)
- * You can change the color of the buttons on the monitor panel. (Page 71)

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- 1 Power indicator/Security indicator
 - · Lights up while the unit is turned on.
 - Flashes when the security function is activated. (Page 5)
- 2 ▲ (Eject) button
 - Ejects the disc. (Press) (Page 15)
 - Forcibly ejects the disc. (Hold)
- 3 Loading slot
- 4 HOME/也 button
 - Displays the Home screen. (Press) (Page 10)
 - Turns on the power. (Press) (Page 9)
 - Turns off the power. (Hold) (Page 9)
- 5 CAM button
 - Displays the picture from the connected camera. (Press) (Page 48)

- 6 **□** /VOICE button
 - Displays the App (CarPlay/ Mirroring) screen. (Press) (Pages 25 and 27)
 - Activates the voice control function. (Hold)
 - When a Bluetooth mobile phone is connected: Activates the voice dialing. (Page 59)
 - When iPod/iPhone compatible with Apple CarPlay is connected: Activates Siri. (Page 26)
- 7 Volume/MENU/TEL knob
 - Displays the pop-up short-cut menu. (Press) (Page 14)
 - Displays the phone control screen. (Hold) (Page 57)
 - · Adjusts the audio volume. (Turn) (Page 9)
- 8 Monitor panel*
- 9 Screen (touch panel)
- You can change the color of the buttons on the monitor panel. (Page 71)

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- 1 CAM button
 - Displays the picture from the connected camera. (Press) (Page 48)
- 2 Volume ▼/▲ button Adjusts the audio volume. (Page 9)
- ∃ HOME/ button
 - Displays the Home screen. (Press) (Page 10)
 - Turns on the power. (Press) (Page 9)
 - Turns off the power. (Hold) (Page 9)
- 4 MENU button
 Displays the pop-up short-cut menu. (Press)
 (Page 14)

5 **□ ■** /VOICE button

- Displays the App (CarPlay/ Android Auto/ Mirroring) screen. (Press) (Pages 25 and 27)
- Activates the voice control function. (Hold)
 - When a Bluetooth mobile phone is connected: Activates the voice dialing. (Page 59)
 - When an Android device compatible with Android Auto is connected: Activates voice control. (Page 25)
 - When iPod/iPhone compatible with Apple CarPlay is connected: Activates Siri. (Page 26)
- 6 ▲ (Eject) button
 - Displays the <Angle Adjust> screen. (Press) (Page 9)
 - Forcibly ejects the disc. (Hold)
- 7 Monitor panel*
- 8 Screen (touch panel)
- You can change the color of the buttons on the monitor panel. (Page 71)

Common operations

☐ Turning on the power

DDX9903S DDX6903S DDX9703S DDX6703S DDX9716BTS



HOME (





DDX916WSL

☐ Turning off the power

DDX9903S DDX6903S DDX916WSL DDX9703S DDX6703S DDX6703S



☐ Adjusting the volume

To adjust the volume (0 to 35)
DDX9903S
DDX9703S
DDX9716BTS

DDX9716BTS

Press ▲ to increase, and press ▼ to decrease.

 Holding ▲ increases the volume continuously to level 15. DDX6903S DDX6703S



Turn to the right to increase, and turn to the left to decrease.

☐ Turning off the screen

Select [**Display OFF**] on the pop-up short-cut menu. (Page 14)



To turn on the screen: Touch the display.

- ☐ Monitor panel operations <Angle Adjust> (Only for DDX9903S/ DDX9703S/DDX9716BTS/DDX916WSL)
- 1 Display the <Angle Adjust> screen.
 DDX9903S
 DDX9703S



DDX9716BTS



2



Exits the < Angle Adjust>

screen.

[0] – [6] Selects a monitor angle.

[**△DISC EJECT**] Ejects the disc.

<Off Position> Sets the angle of the monitor

when the power is turned off.

 Select the monitor angle, then touch [Memory].

To close the monitor panel: Press \triangle on the monitor panel.

☐ Putting the unit in standby

1 Display the source/option selection screen. On the Home screen or the source control screen:



- Touch [STANDBY] on the source/option selection screen.
 - Touch [)] to change the page.





Common screen 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.



Swipe

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



☐ Home screen descriptions

You can select playback sources, display setting screens, or display information on the Home screen.

 To display the Home screen, press HOME on the monitor panel.



Common operation buttons and indications:

- 1 Displays the control screen of current source.
- 2 Widget
 - Touching the widget displays the detailed information/setting screen.
 - You can change the widget by touching [(]/[)] or flicking left or right on the widget area.
- 3 Page indication for widgets
- 4 Current source information
- 5 Displays the source/option selection screen. (Page 11)
- 6 Short-cut playback source icons (Page 14)
- Displays the phone control screen. (Page 57) When connecting as Apple CarPlay or Android Auto, it works as a phone provided in Apple CarPlay or Android Auto.

☐ Source/option selection screen descriptions

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

• You can customize the source/option selection screen. (Page 14)



Common operation buttons and indications:

- 1 Changes the playback source or displays a setting/information screen.
 - For playback sources and setting screens, see page 13.
 - · For information and sources from the connected ADS adapter, see page 50.*
- 2 Changes the page. (Touch [()] or [)].)
 - · You can also change the page by flicking left or right on the screen.
- 3 Displays the Home screen. (Page 10)
- 4 Page indication
- Displays the **<SETUP>** screen. (Page 12)
- * Only for DDX9903S/DDX9703S/DDX6903S/DDX6703S.

☐ Source control screen descriptions

You can perform source playback operations on the source control screen.

 The operation buttons and information displayed vary depending on the selected source.



Common operation buttons and indications:

- 1 Current source or media
- 2 Connected Bluetooth device information (Page 52)
- 3 Battery charge indication: Lights up when guick charging battery of the connected iPod/iPhone/ Smartphone.
- Displays the other operation button window.*
- 5 Displays the source/option selection screen. (See the left column.)

- 6 Short-cut source selection buttons/the indicators for the current source
 - Each time you touch [() or [)], the items shown in this area change.
 - The indicators for the current source



- The short-cut source selection buttons (Page 14)



- · Touching one of the buttons displays the selected source.
- 7 Displays the phone control screen. (Page 57) When connecting as Apple CarPlay or Android Auto, it works as a phone provided in Apple CarPlay or Android Auto.
- * Does not appear when there are no other operation buttons other than those currently shown on the source control screen.

□ <SETUP> screen descriptions

You can change the detailed settings. (Page 74)





Common operation buttons and indications:

- 1 Selects the menu category.
- 2 Returns to the previous screen.
- 3 Changes the page.

 $[\blacktriangle]/[\blacktriangledown]$: Scrolls the page.

 You can also scroll the page by swiping on the touch panel.

 $[\mathbf{X}]/[\mathbf{Y}]$: Displays the top or bottom page.

☐ List screen descriptions

During audio/video source playback, you can select the desired item easily from the list.



Common operation buttons and indications:

- Available buttons on the screen and operations differ depending on the type of file/media being played back.
- 1 Displays list type selection window.
- 2 Selects the file type ([☐]: audio/[☐]: video).
- 3 Returns to the previous screen.
- 4 Scrolls the text if not all of the text is shown.
- 5 Searches for a folder/track.

[Play]: Plays all tracks in the folder containing the current track

[**Q A–Z**]: Enters the initial search mode. [**1 Top**]: Returns to the top layer.

[**† Up**]: Returns to the upper layer.

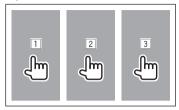
6 Changes the page.

[▲]/[▼]: Scrolls the page.

 You can also scroll the page by swiping on the touch panel.

 $[\mathbf{X}]/[\mathbf{Y}]$: Displays the top or bottom page.

☐ Playback operations during video playback



- 1 Selects a previous chapter/track/item.
- Displays the source control screen while playing a video.



- The operation buttons disappear when [Hide] is touched or when no operation is done for about 5 seconds.
- 3 Selects a next chapter/track/item.

Selecting the playback source/ option

Display the source/option selection screen. On the Home screen or the source control screen:



2 Select a source/option.





 To display more items, touch [(]/[)] or flick to change the page. [HDMI/MHL]*1 Play

Plays a device connected to the HDMI/MHL input terminal.

(Page 49)

[Android Auto]/[Apple CarPlay]/[Mirroring]*2 *3

Switches to the Android Auto/ Apple Car Play/App screen from the connected iPod touch/iPhone/ Android device*3. (Pages 25 –

27)

[HD Radio]*4 Switches to the HD Radio

broadcast. (Page 28)

[Radio]*5 Switches to the conventional radio

broadcast. (Page 34)
[SiriusXM]*4 Switches to the SiriusXM® satellite

radio broadcast. (Page 36) Plays a Bluetooth audio player.

(Page 61)

[DISC] Plays a disc. (Page 15)

[iPod] Plays an iPod/iPhone. (Page 22)
[USB] Plays files on a USB device.

(Page 19)

[AV-IN1]*6 Switches to an external

component connected to the AV-IN1 input terminal. (Page 48)

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[AV-IN]*7 or [AV-IN2]*6

[Bluetooth]

Switches to an external component connected to the AV-IN*7 or AV-IN2*6 input terminal.

(Page 48)

[NAV]*8 Displays the navigation screen

when a navigation unit is

connected. (Page 51)

[Audio] Displays the sound adjustment

screen. (Page 65)

[STANDBY] Puts the unit in standby.

(Page 10)

Displays the **<SETUP>** menu

screen. (Page 74)

 Only for DDX9903S/DDX9703S/DDX6903S/ DDX6703S: For sources and information displayed when an ADS adapter is connected, see page 50.

- *1 DDX9903S/DDX9703S/DDX9716BTS/DDX916WSL.
- **2 When iPhone compatible with CarPlay is connected and <Automotive Mirroring> is set to [ON] (Page 26), [Apple CarPlay] is displayed. When an Android device compatible with Android Auto is connected, [Android Auto] is displayed.
- *3 Android Auto is available only for DDX9903S/DDX9703S/ DDX9716BTS/DDX916WSL.
- *4 Only for DDX9903S/DDX9703S/DDX6903S/DDX6703S.
- *5 Only for DDX9716BTS/DDX916WSL.
- *6 Only for DDX916WSL.
- *7 Only for DDX9903S/DDX9703S/DDX6903S/DDX6703S/DDX9716BTS.
- **8 Only for DDX9716BTS/DDX916WSL: When no navigation unit is connected, "No Navigation" appears.

Selecting the playback source on the Home screen



- The 3 items displayed on the source/option selection screen as the large icons are shown on the Home screen.
- You can change items displayed on this area by customizing the source/option selection screen. (See the right column.)

Selecting the playback source on the source control screen

Display source selection buttons by touching $[\langle]/[\rangle]$ on the source control screen (Page 11), then select a playback source.



- The 3 items displayed on the source/option selection screen as the large icons are shown as the short-cut selection buttons.
- You can change items displayed as the short-cut source selection buttons by customizing the source/option selection screen. (See the right column.)

☐ Customizing the source/option selection screen

You can arrange the items to display on the source/option selection screen.

Touch and hold the item you want to move until boxes appear around the icons, then drag it to the position you want to move it to .



Using the pop-up short-cut menu

While displaying the source control screen, you can jump to another screen from the pop-up short-cut menu.

1 Display the pop-up short-cut menu.
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MENU



2 Select an item to jump to.



[Screen Displays the picture adjustment

Adjustment] screen. (Page 70) [**Display OFF**] Turns off the screen.

(Page 9)

[Camera] Displays the picture from the

connected camera. (Page 48)

[SETUP] Displays the **<SETUP>** screen.

(Page 74)

[Audio] Displays the sound adjustment

screen. (Page 65)

[USB] Displays the control screen of

current source. Icon feature differs depending on the

source.

To close the pop-up menu: Touch the screen anywhere other than the pop-up short-cut menu, or press MENU on the monitor panel.

Playing a disc

- If a disc does not have a disc menu, all tracks on it will be played repeatedly until you change the source or eject the disc.
- For playable disc types/file types, see page 88.

☐ Inserting a disc

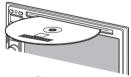
Insert a disc with the label side facing up.

 For DDX9903S/DDX9703S/DDX9716BTS/ DDX916WSL: To open the monitor panel, see page 9.

DDX9903S DDX9703S DDX9716BTS



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DDX916WSL



The source changes to "DISC" and playback starts.

• The IN indicator lights up while a disc is inserted.

- If "\one " appears on the screen, the unit cannot accept the operation you have tried to do.
 - In some cases, without showing "O," operations will not be accepted.
- When playing back a multi-channel encoded disc, the multi-channel signals are downmixed to stereo.

☐ Ejecting a disc

DDX9903S/DDX9703S/DDX9716BTS/ DDX916WSL

Press ▲ on the monitor panel, then select [▲ DISC EJECT] on the <Angle Adjust> screen.



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When removing a disc, pull it horizontally.

- You can eject a disc when playing another AV source.
- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust.

To eject a disc forcibly

Press and hold ≜ on the monitor panel.

A confirmation message appears. Touch [Yes].

To close the monitor panel (Only for DDX9903S/DDX9703S/DDX9716BTS/DDX916WSL)

After removing the disc, press \triangle on the monitor panel. The monitor panel closes.

Playback operations

When the operation buttons are not displayed on the screen, touch the area shown on the illustration.



To change settings for video playback, see page 70.

☐ Indications and buttons on the source control screen

For video playback



Playback information

- The information displayed on the screen differs depending on the type of disc/file being played back.
- 1 Media type
- 2 Playback mode (Page 18)
- 3 Current playback item information (title no./ chapter no./folder no./file no./track no.)
- 4 IN indicator: A disc is inserted.

Operation buttons

 Available buttons on the screen and operations differ depending on the type of disc/file being played back.

[Hide] Hides the indicators and buttons.[)] Displays the other operation button window.

To hide the window, touch [ζ].
 Selects Repeat playback mode.

(Page 18)

[Selects Random playback mode.

(Page 18)

[Displays the **Graphic Equalizer**>

screen. (Page 66)

[Q] Displays the folder/track list.

(Page 17)

[I◄◄] [▶►I] • Selects a chapter/track. (Touch)

• Reverse/forward search. (Hold)

[▶**||**] Starts/pauses playback.

[**(**][**)**] Reverse/forward search during playback.

playbaci

[Plays in slow-motion.

Stops playback.[SETUP] Changes the settings for disc playback

on the **<DVD SETUP>** screen.

(Page 19)

[MENU Displays the video menu screen.

CTRL] (Page 18)

[Selects a folder.

[PBC] Activates or deactivates the VCD PBC (Playback Control) function.

(Page 17)

[Audio] Change the audio output channel.

(VCD only)

To display all available operation buttons, touch
 [) to display the other operation button window.

For audio playback



Playback information

- The information displayed on the screen differs depending on the type of disc/file being played back.
- 1 Media type
- 2 Playback mode (Page 18)
- 3 Track/file information
 - Touching [<] scrolls the text if not all of the text is shown.
- 4 Jacket picture (Shown while playing if the file has tag data that includes the jacket picture)
- 5 File type
- 6 IN indicator: A disc is inserted.

Operation buttons

 Available buttons on the screen and operations differ depending on the type of disc/file being played back.

[]Displays the other operation button window. • To hide the window, touch [\(\)]. [(] Displays the track list of the folder containing the current track. (Page 17) • To hide the list, touch [)1. $[\Omega]$ Selects Repeat playback mode. (Page 18) Selects Random playback mode. (Page 18) Displays the **Graphic Equalizer**> [......] screen. (Page 66) [**Q**] Displays the folder/track list.

(Page 17)

[I◄◄] [▶►I] Selects a track.

[▶**||**] Starts/pauses playback.

[] Selects a folder.

To display all available operation buttons, touch
 1 to display the other operation button window.

☐ Selecting a folder/track on the list To search all folders/tracks in a disc

Display the folder/track list.



- Select an item.
 - Proceed until you select the desired track.
 - For details about the list operation, see page 12.



To search in the folder containing the current track



- Scroll the page to show more items.
- To hide the list, touch [)].

☐ Activating PBC (Playback Control) function (for VCD only)

While playing a VCD with PBC...





- The PBC indicator lights up.
- To select a track directly while PBC is activated, operate from the remote controller.* (Page 77)

To deactivate PBC: Touch [PBC]. (The PBC indicator turns off.)

* For DDX9903S/DDX9703S/DDX6903S/DDX6703S: Purchase KNA-RCDV331 separately.

☐ Video menu operations (except for VCD)

You can display the video menu screen during video playback.

 The operation buttons disappear when [Hide] is touched or when no operation is done for about 5 seconds.

1 Display the video menu screen.





2



 Available buttons on the screen and operations differ depending on the type of disc/file being played back.

 [TOP]
 Displays the top menu.

 [MENU]
 Displays the disc menu.

 [Return]
 Displays the previous screen.

 [Enter]
 Confirms the selection.

 [Highlight]
 Switches to the direct disc menu mode. Touch the target item to select.

 The menu screen disappears when no operation is done for 5 seconds

[A][V][A][V] Selects an item.

☐ Selecting playback mode



Selects Repeat playback mode.Selects Random playback mode.

- Available playback modes differ depending on the type of disc/file being played back.
- Each time you touch the button, the playback mode changes. (The current playback mode is shown as the button.)
- Available items differ depending on the type of disc/file being played back.

Repeats current chapter. \square CAP Repeats current title. Ω TIT Ω 0 Repeats current track. Repeats all tracks of the current \(\bullet folder. □ ALL Repeats all tracks in the disc. **X** Randomly plays all tracks of the current folder, then tracks of the next folders. ALL Randomly plays all tracks.

• To cancel random mode, touch the button repeatedly until it is grayed out.

Settings for DVD playback

DVD VIDEO Hide Dow III.





- Scroll the page to show more items.
- Available items shown on the <DVD SETUP> screen differ depending on the type of disc/file being played back.

☐ Setting items [Menu Select the initial disc menu language. Language] (Initial: English) (Page 90) **Subtitle** Select the initial subtitle language Languagel or turn subtitles off (Off). (Initial: English) (Page 90) [Audio Select the initial audio language. Languagel (Initial: Original) (Page 90) [Dynamic You can change the dynamic range while playing using Dolby Digital Range software. Control • Wide: Select this to enjoy a powerful sound at a low volume level with its full dynamic range. Normal: Select this to reduce the dynamic range a little. Dialog (Initial): Select this to reproduce movie dialog more clearly. **[Screen** Select the monitor type to watch a Ratio] wide screen picture on the external monitor.

16:9 (Initial) 4:3 LB

4:3 PS

USB

Connecting a USB device

You can connect a USB mass storage class device such as a USB memory, Digital Audio Player, etc. to the unit.

- · For details about connecting USB devices, see page 83.
- You cannot connect a computer or portable HDD to the USB input terminal.
- For playable file types and notes on using USB devices, see page 89.
- 1 Connect the USB device to the unit with an USB cable.
- **2** Select "**USB**" as the source. (Page 13)

☐ To disconnect the USB device

- Select a source other than "USB". (Page 13)
- Detach the USB device.

Playback operations

When the operation buttons are not displayed on the screen, touch the area shown on the illustration.



· To change settings for video playback, see page 70.

☐ Indications and buttons on the source control screen

For audio playback



For video playback



Playback information

- The information displayed on the screen differs depending on the type of file being played back.
- 1 Playback mode (See below.)
- 2 Track/file information
 - Touching [<] scrolls the text if not all of the text is shown.
- 3 Jacket picture (Shown while playing if the file has tag data that includes the jacket picture)
- 4 File type

Operation buttons

 Available buttons on the screen and operations differ depending on the type of file being played back.

[Hide]

Hides the indicators and buttons.

D

Displays the other operation button window.

[(]

 To hide the window, touch [⟨]. Displays the track list of the folder containing the current track.

• To hide the list, touch [)].



Selects Repeat playback mode.

- file.
- Repeats all tracks/files in the current folder or specified category.
- **QALL**: Repeats all tracks/files in the USB device.

Randomly plays all tracks in current folder.*1 (indicator lights up.) Displays the **<Graphic Equalizer>** screen. (Page 66)

[.......] $[\mathbf{Q}]$

Displays the list. (Page 21)

- · Selects a track. (Touch)
- Reverse/forward search. (Hold)

Starts/pauses playback.

Selects a folder.

CHANGE1*2

IUSB DEVICE Switches to another USB device when two USB devices are

connected.

- To display all available operation buttons, touch 1) to display the other operation button window.
- *1 To cancel random mode, touch the button repeatedly until it is graved out.
- *2 Only for DDX9903S/DDX6903S/DDX916WSL.

☐ Selecting a track in a list

To search all folders/tracks in a USB device

Display the list.



Select the list type.

Category List



- Select the desired track.
 - · Proceed until you select the desired track.
 - For details about the list operation, see page 12.

From <Category List>:

- (1) Select the file type.
- ② Select a category, then the item in the selected category.



From <Link Search>:

- 1) Select the file type.
- ② Select the tag type to display a list of content that contains the same tag as the track/file currently being played, then select the item.



From <Folder List>:

(1) Select the file type.

Select the folder, then the item in the selected folder.



To search in the folder containing the current track



- Scroll the page to show more items.
- To hide the list, touch [)].

iPod/iPhone

Preparation

☐ Connecting iPod/iPhone

- For details about connecting iPod/iPhone, see page 83.
- For playable iPod/iPhone types, see page 89.

Connect your iPod/iPhone according to your purpose or the type of iPod/iPhone.

Wired connection

- · To listen to music:
 - For Lightning connector models: Use USB Audio cable for iPod/iPhone—KCA-iP103 (optional accessory).
 - For 30-pin connector models: Use USB Audio cable for iPod/iPhone—KCA-iP102 (optional accessory).
- · To watch video and listen to music:
 - For Lightning connector models: Use the HDMI cable KCA-HD100 (optional accessory) and KCA-iP103 (optional accessory) through a Lightning-Digital AV adapter (accessory of the iPod/iPhone).*

Bluetooth connection

Pair the iPod/iPhone through Bluetooth. (Page 52)

- For Lightning connector models: To watch video, connect your iPod/iPhone to the HDMI/MHL input terminal using KCA-HD100 (optional accessory).* (Page 83)
- For 30-pin connector models: You cannot watch video with a Bluetooth connection.

Connection with KCA-HD100 is available only for DDX9903S/ DDX9703S/DDX9716BTS/DDX916WSL. For DDX6903S/DDX6703S. you cannot watch the video when connecting iPod/iPhone Lightning connector models.

☐ Selecting the connection method

Display the source/option selection screen. On the Home screen or the source control screen:



Display the **<SETUP>** screen.



Display the **<AV>** screen.



Set [Automotive Mirroring] to [OFF].



Display the < APP/iPod SETUP > screen.



Select the connection method of iPod/ iPhone for < APP Connection select>.



[iPhone Select this when iPod/iPhone USB1 is connected using KCA-iP102

(optional accessory) or

KCA-iP103 (optional accessory). Select this when iPod/iPhone is

Bluetooth1 [iPhone HDMI/MHL1

[iPhone

connected via Bluetooth. Select this when iPod/iPhone **Bluetooth** + is connected both by cable KCA-HD100 (optional accessory) to the HDMI/MHL input terminal

and via Bluetooth.

Finish the procedure.



iPod/iPhone

Playback operations

When the operation buttons are not displayed on the screen, touch the area shown on the illustration.



· To change settings for video playback, see page 70.

☐ Indications and buttons on the source control screen

For audio playback



Playback information

- 1 Playback mode (See the right column.)
- 2 Song information
 - Touching [<] scrolls the text if not all of the text is shown.
- 3 Artwork (Shown if the track contains artwork)
- 4 File type

Operation buttons

 Available buttons on the screen and operations differ depending on the type of file being played back.

[(] Displays the track list of the category containing the current track.

• To hide the list, touch [)].

Selects Repeat playback mode. $[\Omega]$

- One.
- **PALL**: Functions the same as Repeat All.

Selects random playback mode.*

- \(\): Functions the same as Shuffle Songs.
- Functions the same as Shuffle Albums.

[......] Displays the **<Graphic Equalizer>** screen. (Page 66)

 $[\mathbf{Q}]$ Displays the list. (Page 24)

· Selects a track. (Touch)

· Reverse/forward search. (Hold)

[**▶**II] Starts/pauses playback.

^{*} To cancel random mode, touch the button repeatedly until it is grayed out.

iPod/iPhone

☐ Selecting an audio track from the list To search all tracks in iPod/iPhone

1 Display the list.



2 Select the list type.



- **3** Select the desired track.
 - · Proceed until you select the desired track.
 - For details about the list operation, see page 12.

From <Category List>:

Select a category, then the item in the selected category.

• Available categories differ depending on the type of your iPod/iPhone.



From <Link Search>:

Select the tag type to display a list of content that contains the same tag as the track/file currently being played, then select the item.



To search in the folder containing the current track



- Scroll the page to show more items.
- To hide the list, touch [)].

APPS—Android Auto™/Apple CarPlay/Mirroring

You can use an App of the connected iPod touch/ iPhone/Android on this unit.

- You can use an App on the following sources:
- Only for DDX9903S/DDX9703S/DDX9716BTS/ DDX916WSI: When an Android device compatible with Android Auto is connected: "Android Auto" (See below)
- When iPhone compatible with CarPlay is connected: "Apple CarPlay" (Page 26) or "Mirroring" (Page 27)
- When a device other than above is connected: "Mirroring" (Page 27)

Using the Apps of an Android device—Android Auto™ (Only for DDX9903S/DDX9703S/ DDX9716BTS/DDX916WSL)

☐ About Android Auto

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.

 For details about Android Auto, visit https:// www.android.com/auto/> and https://support. google.com/androidauto>.

Compatible Android devices

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

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

□ Preparation

To use the navigation function of Google Maps™. connect a GPS antenna. (Page 86)

- Set [Automotive Mirroring] to [ON]. (Page 26)
- **2** Connect an Android device using a Micro USB to USB cable (commercially available). (Page 84)
 - To use the hands-free function, connect the Android device via Bluetooth. (Page 52)
 - When an Android device compatible with Android Auto is connected to the USB input terminal, the device is connected via Bluetooth automatically, and the Bluetooth mobile phone currently connected is disconnected.
 - · Unlock your Android device.
- Select "Android Auto" as the source. (Page 13)
 - · [Android Auto] is displayed only when a compatible Android device is connected.

☐ 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 depending on the connected Android device.



1 Application/information buttons Starts the application or displays information.

To exit the Android Auto screen: Press HOME on the monitor panel.

☐ Using voice control

DDX9903S DDX9703S DDX9716BTS DDX916WSI





- To cancel the voice control, press and hold the same button again.
- ☐ Switching to the Android Auto screen while listening to another source

DDX9903S DDX9703S DDX9716BTS





DDX916WSL

To return to the source control screen: Press the same button again.

APPS—Android Auto™/Apple CarPlay/Mirroring

Using Apps of iPhone—Apple CarPlay

☐ About CarPlay

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 unit. 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/>.

Compatible iPhone devices

You can use CarPlay with the following iPhone models.

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

Although the service area is expanding, CarPlay service is NOT available in some markets. Please check the latest information concerning availability in your region from the below website. http://www.apple.com/ios/featureavailability/#applecarplay-applecarplay

□ Preparation

To use the navigation function of the maps App, connect a GPS antenna. (Page 86)

 Configure the settings to use Apple CarPlay on the <AV> screen.
 On the Home screen or the source control screen:





[Automotive Mirroring] [CarPlay Sidebar] Select **[ON]** to use Apple CarPlay.

Select the position of the control bar (left or right) shown on the touch panel.

- 2 Connect iPhone using KCA-iP103 (optional accessory). (Page 84)
 - When iPhone compatible with CarPlay is connected to the USB input terminal, the Bluetooth mobile phone currently connected is disconnected.
 - · Unlock your iPhone.
- 3 Select "Apple CarPlay" as the source. (Page 13)
 - [Apple CarPlay] is displayed on the Home screen or the source/option selection screen only when a compatible iPhone is connected.

☐ Using Siri

You can activate Siri while the CarPlay screen is displayed.

On the home screen of CarPlay:

1 Touch and hold [①] to activate Siri.



- 2 Talk to Siri.
- You can also activate Siri by pressing and holding \$\Boxed{\textstyle=1}\text{VOICE}\$ on the monitor panel.
 - To deactivate, press □ /VOICE on the monitor panel.

APPS—Android Auto™/Apple CarPlay/Mirroring

☐ 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 depending on the connected device.



- 1 Application buttons Starts the application.
- 2 (O) button
 - On the App screen: Displays the home screen of CarPlay. (Touch)
 - On the home screen of CarPlay: Activates Siri. (Hold) (Page 26)
- 3 [HOME] button Exits the CarPlay screen and displays the Home screen.

To exit the CarPlay screen: Press HOME on the monitor panel.

☐ Switching to the Apple CarPlay screen while listening to another source

DDX9903S DDX9703S DDX9716BTS DDX6903S DDX6703S



DDX916WSL



To return to the source control screen: Press the same button again.

Using an App—Mirroring

You can use an App of the connected iPod touch/ iPhone/Android on this unit.

- For Apps you can use on this unit, visit http://www.kenwood.com/cs/ce>.
- For Android devices, you can use more functions with the KENWOOD Smartphone Control application. For details, visit http://www.kenwood.com/cs/ce>.

☐ Preparation

- 1 Connect the iPod touch/iPhone/Android.
 - For wired connection, see page 83 for iPod touch/iPhone or page 84 for Android.
 - To view video, connect the device using KCA-HD100* (optional accessory).
 - For Bluetooth connection, see page 52.
- 2 Set [Automotive Mirroring] to [OFF]. (Page 26)
- Select the device to use and connection method on the <APP Connection select> of the <APP/iPod SETUP> screen. (Page 63)
- * Connection with KCA-HD100 is available only for DDX9903S/ DDX9703S/DDX9716BTS/DDX916WSL. For DDX6903S/DDX6703S. you cannot watch the video when connecting iPod/iPhone Lightning connector models.

☐ Playback operations

- Start the App on your iPod touch/iPhone/ Android
- Select "Mirroring" as the source. (Page 13)

The App screen is displayed.

- When a caution message is displayed, operate by following the message.
- You can operate some functions of the App on the touch panel.
- For some applications such as navigation applications, the operation buttons and information are not shown. You can perform the operations on the touch panel, such as scrolling the map.
 - If "\O" appears on the screen, the unit cannot accept the touch operation you have tried to do.
- You can also play back the audio/video using iPod/iPhone/Android itself instead of the unit.
- ☐ Switching to the Apple CarPlay screen while listening to another source

DDX9903S DDX9703S DDX9716BTS **DDX6903S DDX6703S** DDX916WSL







To return to the source control screen: Press the same button again.

HD Radio[™] tuner (Only for DDX9903S/DDX9703S/DDX6903S/DDX6703S)

About HD Radio™ Technology



HD2/HD3

 Adjacent to traditional main stations are HD2/HD3 Channels, providing new original formats on the FM dial

Bookmark

 Bookmark is a music & product discovery feature that enables users to store information about content on the radio and delivers interactive information via OR codes

Digital Sound

 HD Radio broadcasts deliver crystal-clear, CD-like digital audio quality to consumers

Program Info

• Provides song name, artist, station ID, and other relevant data to enrich the listening experience

Artist Experience

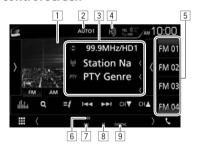
 Artist Experience is the synchronous transmission, delivery, and display of images on the HD Radio receiver that are related to the specific audio segment.

Emergency Alerts

Delivers critical and life-saving messages to the public during emergency situations

Listening to the HD Radio™ broadcast

☐ Indications and buttons on the source control screen



HD Radio reception information

- 1 Picture or station logo if available
- 2 Seek mode (Page 29)
- 3 Text information
 - Touching [<] scrolls the text if not all of the text is shown.
 - Touching [②] switches the information as follows:
 - Frequency/station name/song title/artist name
 - Frequency/station message/Radio TextFrequency/PTY genre/album name
- 4 HD indicator
 - When receiving a digital HD radio broadcast, the HD indicator lights up in orange.
 - When receiving an analog HD radio broadcast, the HD indicator is grayed out.
 - When receiving a conventional radio broadcast, the HD indicator is turned off.
- 5 Preset list (Page 31)
- 6 EA indicator (Page 33)
- MC indicator: Lights up when receiving an HD Radio multicast channel.
- 8 ST indicator: Lights up when receiving an FM stereo broadcast with sufficient signal strength.
- 9 HD Radio reception mode (Page 29)
 - When digital signals are emitted, the DIGITAL indicator lights up.
 - When analog signals are emitted, the ANALOG indicator lights up.

HD Radio™ tuner

Operation buttons

Changes the seek mode. Each time [AUTO1]/ you touch the button, the seek [AUTO2]/ mode changes as follows: [MANUAL] AUTO1: Auto search • AUTO2: Tunes in stations in the memory one after another. MANUAL: Manual search 1)1 Displays the other operation button window. • To hide the window, touch [\(\)]. [(1)]Displays the preset list. • To hide the list, touch [)1. Selects the AM band. [AM]

Selects the FM band. [FM] [......] Displays the **<Graphic Equalizer>**

screen. (Page 66)

[**Q**] Displays the channel search screen. (Page 30)

Displays a list of registered [≡#]

bookmarks. (Page 32)

Searches for a station. The search method differs

according to the selected seek mode. (See above.)

[CH▼] [CH▲] Selects a sub-channel when

receiving an HD Radio multicast channel.

Displays the direct station/channel [10Key Direct]

search screen. (Page 30)

Presets stations automatically. [AME] (Page 31)

Changes the HD Radio reception [RCV]

mode. (See below.)

[PTY]* Enters PTY search mode.

(Page 30)

[1/] Bookmarks tag information about the current track. (Page 32)

Activates/deactivates the reception [Emergency of the emergency alert message. Alerts1

(Page 33)

[Alert Displays the received emergency alert message list. (Page 33) Message Log1

- To display all available operation buttons, touch [)] to display the other operation button window.
- * Appears only when FM is selected as the band.

☐ Changing the HD Radio reception mode

While receiving an HD Radio broadcast, the unit tunes into digital or analog audio automatically according to the reception conditions.

Display the HD Radio reception mode selection window.





2 Select the reception mode.



[Auto] Switch between digital and analog audio automatically.

[Digital] Select this to tune into digital audio

[Analog] Select this to tune into analog audio

• To close the window, touch [Close].

HD Radio[™] tuner

☐ Selecting a station/channel by specifying frequency/channel number—Direct Search

You can search for a station by entering the desired frequency or channel number.

1 Display the <10Key Direct> screen.





2 Select a search method (by frequency or by channel) (1), enter the frequency or channel number (2), then start searching (3).



Touch [Is] to delete the last entry.

☐ Selecting a channel on the channel list

You can search for a channel from the desired category on the channel list.

1 Display the channel list.



2 Select the desired channel.



- · Scroll the page to show more items.
- To switch the sequence of the list (between song title/artist name/album name), touch [Info Change].

☐ Searching for FM HD Radio programs— PTY Search

You can search for your favorite programs being broadcast by selecting the PTY code.

1 Display the <PTY Search> screen.





Select a PTY code (1), then start searching (2).



Scroll the page to show more items.
 PTY Search starts.

If there is a station broadcasting a program of the same PTY code as you have selected, that station is tuned in.

HD Radio™ tuner

Presetting stations

☐ Storing stations in the memory

You can preset 15 stations for FM and 5 stations for AM.

Automatic presetting—AME (Auto Memory)





The confirmation message appears. Touch [Yes]. The local stations with the strongest signals are found and stored automatically.

Manual presetting

- 1 Tune in to a station you want to preset. (Page 29)
- Display the preset list.



Select a preset number to store.



The station selected in step 1 is stored.

- Scroll the page to show more items.
- To hide the list, touch [)1.

☐ Selecting a preset station from the list





- Scroll the page to show more items.
- To hide the list, touch [)].

HD Radio[™] tuner

Bookmarking information of a favorite song

You can store the tag information (title, artist, album, URL, and description) of the current track. You can view the detailed information about the track on the bookmark list.

☐ Registering a bookmark

You can register up to 100 bookmarks.





The current track is registered in the bookmark list.

☐ Checking information of a bookmarked track

1 Display the <Bookmarks List> screen.



- **2** Display the information of a bookmarked track.
 - Scroll the page to show more items on the **Bookmarks List>** screen.





The track information and QR code are displayed.

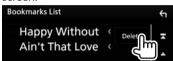
• To delete the current bookmark, touch [Delete].

☐ Deleting a bookmark

1 Display the **<Bookmarks List>** screen.



2 Display the <Bookmarks Delete List> screen.



3 Select bookmarked tracks to delete (①), then delete them (②).



- "✓" appears beside the selected bookmarks.
- Touch [All] to select all bookmarks.
- Touch [All] to deselect all selected bookmarks.
- Scroll the page to show more items.

HD Radio™ tuner

Receiving an emergency alert message

You can receive an emergency alert message while listening to another source.

☐ Activating emergency alert message reception





- The EA indicator lights in the following cases:
 - Lights in white: The current station supports the emergency alert.
 - Lights in orange: Emergency alert is not available.
 - Lights in red: Receives the emergency alert or snoozes the reception.

When receiving an emergency alert message

When you receive an emergency alert message, the following screen is displayed.



Check the message, select the interval time to receive the same emergency alert message, close the alert message screen.

The same emergency alert [Snooze]

message will not interrupt again for

10 minutes.

[Ignore] The same emergency alert message

will not interrupt again for 12 hours.

☐ Displaying received emergency alert messages

The received emergency alert messages are stored in the unit, and you can check them later.

Display the **<Alert Message Log>** screen.





Select the desired emergency alert message.

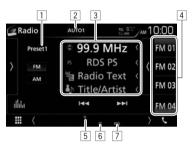


• Scroll the page to show more items. The selected message is displayed. To close the message window, touch [Close].

Radio (Only for DDX9716BTS/DDX916WSL)

Listening to the radio

☐ Indications and buttons on the source control screen



Radio reception information

- 1 Preset no.
- 2 Seek mode (See the right column.)
- 3 Text information
- Touching [<] scrolls the text if not all of the text is shown.
 - Touching [۞] switches the information as follows:
 - Frequency/PS name/Radio Text/title and artist
 - Frequency/PTY genre/Radio Text plus
- 4 Preset list (Page 35)
- 5 TI indicator (Page 35)
- ST/MONO indicator: Lights up when receiving an FM stereo broadcast with sufficient signal strength.
- 7 RDS indicator: Lights up when receiving an RBDS station.

Operation buttons

Operation bu	ittons
[AUTO1]/	Changes the seek mode. Each time
[AUTO2]/	you touch the button, the seek
[MANUAL]	mode changes as follows:
	 AUTO1: Auto search
	 AUTO2: Tunes in stations in the
	memory one after another.
	 MANUAL: Manual search
[)]	Displays the other operation
•	button window.
	 To hide the window, touch [⟨].
[(]	Displays the preset list.
	 To hide the list, touch [)].
[AM]	Selects the AM band.
[FM]	Selects the FM band.
[###]	Displays the <graphic equalizer=""></graphic>
	screen. (Page 66)
	Searches for a station.
	 The search method differs
	according to the selected seek
	mode. (See above.)
[TI]*	Activates/deactivates TI standby
	reception mode. (Page 35)
[AME]	Presets stations automatically. (See
	the right column.)
[PTY]*	Enters PTY search mode.
	(Page 35)
[MONO]	Activates/deactivates monaural
	mode for better FM reception.
	(Stereo effect will be lost.)
	 The MONO indicator lights

To display all available operation buttons, touch
 [) I to display the other operation button window.

activated.

up while monaural mode is

* Appears only when FM is selected as the band.

Presetting stations

☐ Storing stations in the memory

You can preset 15 stations for FM and 5 stations for AM.

Automatic presetting—AME (Auto Memory)



The confirmation message appears. Touch [Yes]. The local stations with the strongest signals are found and stored automatically.

Manual presetting

- 1 Tune in to a station you want to preset. (See the left column.)
- 2 Display the preset list.



Radio

Select a preset number to store.



The station selected in step 1 is stored.

- Scroll the page to show more items.
- To hide the list, touch [)1.

☐ Selecting a preset station from the list





- Scroll the page to show more items.
- To hide the list, touch ()1.

FM RBDS features

☐ Searching for FM RBDS programs—PTY Search

You can search for your favorite programs being broadcast by selecting the PTY code.

Display the **PTY Search** screen.





Select a PTY code (1), then start searching (2).



· Scroll the page to show more items. PTY Search starts.

If there is a station broadcasting a program of the same PTY code as you have selected, that station is tuned in.

☐ Activating/deactivating TI Standby Reception

You can receive traffic information even while listening to another source by activating TI Standby Reception.





The unit is in standby to switch to Traffic Information (TI) if available.

- The TI indicator lights up in the following cases:
 - Lights in white: Receives the Traffic Information.
- Lights in orange: On standby for traffic information reception.
- · If the TI indicator is lit in orange, tune into another station providing RBDS signals.
- When traffic information is received, the screen switches to the Traffic Information screen automatically.

To deactivate TI Standby Reception: Touch [TI]. (The TLindicator turns off.)

· The volume adjustment for Traffic Information is automatically memorized. The next time the unit switches to Traffic Information, the volume is set to the previous level.

SiriusXM® Satellite Radio (Only for DDX99035/DDX97035/DDX69035/DDX67035)

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.

Activating subscription

- 1 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.
- 2 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
- When a confirmation message is displayed, touch [Return].

Listening to the SiriusXM® Satellite Radio

☐ Indications and buttons on the source control screen

Live mode screen



SiriusXM® Satellite Radio reception information

- 1 Channel Logo/Album art
- 2 Seek mode (Page 37)
- 3 Signal strength indicator
- 4 SiriusXM® Satellite Radio indicators
 - Mix: Lights up when TuneMix[™] is activated. (Page 41)
 - Scan: Lights up when TuneScan[™] is activated. (Page 40)
 - A: Lights up when SportsFlash™ is activated or when receiving SportsFlash information. (Page 42)
 - Indicates the status of weather and traffic information reception. (Page 41)

- 5 Text information
 - Touching [<] scrolls the text if not all of the text is shown.
 - Touching [۞] switches the information as follows:
 - Channel name/artist name/song title/ content information
 - Channel name/category name/channel description/similar channels
- 6 Preset list (Page 38)

Operation buttons

Changes the seek mode. [SEEK1]/ [SEEK2] • **SEEK1**: Skip to another available channel

> • **SEEK2**: Skip to another preset channel

Displays the other operation button [)] window.

• To hide the window, touch [\(\)].

[(1 Displays the preset list. • To hide the list, touch [)1.

Displays the **Graphic Equalizer**> [......]

screen. (Page 66)

Displays the category/channel [Q]

search screen. (See the far right column.)

Starts/pauses the content replay. (Page 39)

Selects the channel. [CH▼][CH▲]

Displays the direct channel search [Direct Channel1 screen. (See the right column.) [SETUP] Changes the settings for SiriusXM Satellite Radio reception on the **<SiriusXM SETUP>** screen.

(Pages 40 - 46)

Selects the band (SXM1 - SXM4). [Band] [Replay]/ Switches between replay mode screen (Page 38) and live mode [Live]

screen (Page 36).

Switches to the latest traffic and [Traffic & Weather1 weather report. (Page 41) Starts TuneScan[™]. (Page 40) [Tune Scan]

[Tune Mix]

Presets channels automatically with

your favorites. (Page 41)

[Sports Flash] Activates SportsFlash™. (Page 42)

• To display all available operation buttons, touch [) I to display the other operation button window.

Selecting a channel

☐ Select a channel by specifying a channel number—Direct Channel

You can search for a station by entering the desired channel number.

Display the **<Direct Channel>** screen.





Enter the channel number (1), then start searching (2).



Touch [still to delete the last entry.

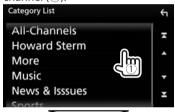
☐ Selecting a channel on the category/ channel list

You can obtain information on channels or select a category and then a channel.

Display the **<Category List>** screen.



Select a category (1), and then select a channel (2).





- Scroll the page to show more items.
- Touching [All-Channels] on the < Category **List>** displays all the channels.
- To switch the sequence of the list (between channel name/artist name/song title/category name/content information), touch [Info Change].

Presetting channels

☐ Storing channels in the memory

You can preset 6 channels for each band.

- 1 Tune in to a channel you want to preset. (Page 37)
- 2 Display the preset list.



3 Select a preset number to store.



The channel selected in step 1 is stored.

- Scroll the page to show more items.
- To hide the list, touch [)].

☐ Selecting a preset channel

1 Display the preset list.



2 Select a preset channel.



- · Scroll the page to show more items.
- To hide the list, touch [)].

Replay

You can pause, rewind and replay content from the currently tuned channel.

- The SiriusXM Connect Vehicle Tuner continually buffers up to 60 minutes of audio.
- If you change to another channel during playback, the Replay buffer content will be lost.

☐ Indications on the Replay mode screen



1 Replay time bar

Shows the remaining capacity (gray) and the amount of buffered content (blue). If the Replay buffer is full, the entire bar becomes blue.

- · Updated every second.
- 2 Time code

Shows you the point in the Replay buffer you are listening to.

- Example: –5:00
 - You are listening to audio that is 5 minutes behind the current broadcast.
- Updated every second.

☐ Replaying content

Display the Replay mode screen.





Perform the replay operations.



- To start/pause the playback, touch [▶Ⅱ].
- · To skip the current track/segment, touch
 - Touching [I◄◀] within 2 seconds of the beginning of the current track/segment returns to the previous track.
 - Touching [I◄◀] after 2 seconds or more of the track have been replayed returns to the beginning of the current track/segment.
- To rewind/fast forward, touch and hold [I◄◄]/ $[\blacktriangleright \blacktriangleright 1]$.

Replaying content from a list of recorded data on a program basis—Instant Replay list

Display the <Instant Replay List> screen.



Select the desired program.



- · Scroll the page to show more items.
- To switch the sequence of the list (between channel name/artist name/song title/category name/content information), touch [Info Change].

To return to the live mode screen:





SmartFavorites

User stored channels (P1 to P6) of current band are recognized as SmartFavorites channels. SiriusXM Connect Vehicle Tuner automatically buffers their broadcast content in the background. When you select a SmartFavorites channel, you can rewind and replay up to 30 minutes of any of the missed news, talk, sports or music content.

- SmartFavorites is available only when you connect an SXV200 or later SiriusXM Connect Vehicle Tuner
- If you change to another band, the buffered content is cleared and new channels in the current band will start buffering.

TuneStart™

When you select a SmartFavorites channel, you can listen to the current song from the beginning.

Activating TuneStart™

1 Display the **<SiriusXM SETUP>** screen.







To deactivate TuneStart: Touch [**TuneStart**] to select [**OFF**].

TuneScan

When you activate TuneScan™, you will hear 6 seconds of the songs, which have not been listened to, from each of the music channel presets on the current Band and the currently tuned channel.





The unit starts scanning. (The Scan indicator lights up.)

- To select the previous/next content, touch [I◄◄] or [▶►I].
- To play the currently scanned content, touch [Tune Scan].
- To exit scanning and return to the live position, touch and hold [Tune Scan].

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 2 to as many as 6 music channels. You can even skip songs you do not want to hear.

 TuneMix[™] is available only when you connect an SXV300 or later SiriusXM Connect Vehicle Tuner.

Activating TuneMix™



• The Mix indicator lights up.

To deactivate TuneStart: Touch [Tune Mix]. (The Mix indicator turns off.)

Receiving the latest traffic and weather report—Traffic & Weather Now™

Traffic & Weather Now™ allows you to access the latest report whenever you want to hear it.

☐ Registering a city for receiving Traffic & Weather broadcasts

Display the **<SiriusXM SETUP>** screen.



Display the < Traffic Weather City Select> window.



3 Select the city for which you want receive SiriusXM Traffic & Weather broadcasts.

☐ Receiving Traffic & Weather broadcasts





The latest traffic and weather report starts from the beainning.

- The indicator color indicates the status of the traffic and weather report reception as follows: When SXV300 is connected:
 - Lights in white: Played already.
 - Lights in green: New information available.
 - Lights in purple: Playing.
 - Turned off: There is no information.

When SXV200/SXV100 is connected:

- Lights in white: On standby for Traffic and weather report reception.
- Lights in purple: Playing.
- Turned off: Traffic and weather report reception is deactivated.

Receiving big play information of your favorite team—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 as though it was live. Continue listening to the game, or you can return to your previous channel.

 SportsFlash™ is available only when you connect an SXV300 or later SiriusXM Connect Vehicle Tuner.

☐ Selecting teams to receive SportsFlash alert

You can register up to 50 teams for SportsFlash. You can receive the information up to 5 games.

1 Display the **<SiriusXM SETUP>** screen.



2 Display the <SportsFlash League Select> screen.



3 Select a league.



• Scroll the page to show more items.

4 Select [ON] for teams you want to receive SportsFlash alert for.



- · Scroll the page to show more items.
- Select [OFF] for the team you want to deactivate SportsFlash alert for.

Repeat steps **3** and **4** if you want to set the SportsFlash alert for other leagues.

- The principal in the following cases:
- Lights up in white: While the SportsFlash alert is in standby.
- Lights up in purple: When receiving SportsFlash information.
- Turned off: SportsFlash alert is not activated.

To deactivate the SportsFlash alert for all selected leagues: Touch [Disable All] in the <SportsFlash League Select> screen.

 When a confirmation message appears, touch [Yes].

☐ Switching to the game information

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

Touch [Jump] to receive the game information.

- To cancel the currently received alert, touch [Ignore].
 - You will receive future alerts for the game.
- To cancel the alert for this game, touch [Cancel].

Receiving alerts for desired content—Content Alert

The unit informs you when receiving the content you are interested in such as music and information about a sports team.

☐ Activating content alert

Display the **<SiriusXM SETUP>** screen.





Select [ON] to activate the content alert.



To deactivate the content alert: Touch [Content Alerts1 to select [OFF].

- ☐ Selecting the content for the content alert
- Display the **<SiriusXM SETUP>** screen. (See the left column.)
- Display < Alert Contents Select > screen.



Select the desired category.



Select [ON] for contents you want to receive alerts for.

Example: when selecting an artist



- Scroll the page to show more items.
- Select [OFF] for the contents you want to deactivate the content alert for.
- For artist/songs: you can delete currently selected content from the list by touching [Delete].
- For sports teams: you can select up to 30 teams.

Repeat steps 3 and 4 if you want to set the content alert for other categories.

To deactivate the all selected contents: Touch [Disable All] in the < Alert Contents Select > screen.

· When a confirmation message appears, touch [Yes].

☐ Switching to registered content

When receiving the contents registered for content alerts, an alert appears on the screen.

Touch [Jump], then select the item to jump to on the Alert Contents List screen.

• To cancel the content alerts, touch [Ignore].





- · Scroll the page to show more items.
- To switch the sequence of the list (between Artist Alert, Song Alert, and Game Alert™), touch [Type].

Setting reception restrictions

☐ Setting the parental control

You can limit access to SiriusXM channels, such as those with mature content.

Setting/changing the parental code

- The initial setting is "0000."
- Changing the code does not change the [Parental Control]/[Parental Lock Channel Selection] settings.
- 1 Display the **<SiriusXM SETUP>** screen.





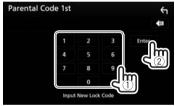
2 Display the <Parental Code Set> screen.



3 Enter the four-digit code (1), and then confirm (2).



- Touch [to delete the last entry.
- **4** Enter a new four-digit code (1), and then confirm (2).



- Touch [state of the last entry.
- **5** Repeat step **4** to confirm the new code.

Activating/deactivating the parental control You can set the parental control feature to lock any SiriusXM channel(s) or automatically lock all channels classified as "mature" by SiriusXM®.

- Display the **<SiriusXM SETUP>** screen. (Page 44)
- Select a parental control mode.



Deactivates the parental mature and [OFF]

user lock.

[Mature] Locks channels classified as "mature"

only.

Locks only the selected channels. [User]

(See the right column.)

Enter the parental code to confirm your choice.

Selecting the channels to lock—Parental Lock **Channel Selection**

This parental control option allows you to pick the channels to be locked by the parental control feature.

- · When [Parental Control] is set to [Mature] or [OFF], you cannot change the [Parental Lock Channel Selection | setting.
- Display the **<SiriusXM SETUP>** screen. (Page 44)



- Enter the parental code. The <Parental Lock Category Select> screen is displayed.
- Select the desired category.



· Scroll the page to show more items.

Select [ON] for channels you want to activate parental lock for.



- Scroll the page to show more items.
- Select [OFF] for the channels you want to deactivate the parental lock for.
- To switch the sequence of the list (between channel name/artist name/song title/category name/content information), touch [Info Change].

Repeat steps 4 and 5 if you want to set the lock on multiple channels.

To deactivate the parental lock for all locked channels: Touch [Disable All] in the <Parental Lock Category Select> screen, then enter the parental code number.

 When a confirmation message appears, touch [Yes].

☐ Skipping unwanted channels

If you do not want to receive some channels, you can skip them.

Activating the channel skipping

- 1 Display the **<SiriusXM SETUP>** screen. (Page 44)
- 2 Display the <Skip Category Select> screen.



3 Select the desired category.



- · Scroll the page to show more items.
- Touching [All-Channels] displays all the channels.

4 Select **[ON]** for channels you want to skip.



- Scroll the page to show more items.
- Select [OFF] for the channels you do not want to skip.
- To switch the sequence of the list (between channel name/artist name/song title/category name/content information), touch [Info Change].

Repeat steps **3** and **4** if you want to select channels to skip from other categories.

To clear the channel skipping for all skipped channels: Touch [Disable All] in the <Skip Category Select> screen.

 When a confirmation message appears, touch [Yes].

☐ Resetting the SiriusXM Satellite Radio settings

You can reset the SiriusXM Satellite Radio settings you set up and restore the default settings.

1 Display the **SiriusXM SETUP**> screen. (Page 44)



A confirmation message appears. Touch [Yes].

Using a camera

- To connect a camera, see page 85.
- To use a rear view camera, a REVERSE lead connection is required. (Pages 81 and 82)

☐ Settings for the camera

Display the source/option selection screen.
 On the Home screen or the source control screen:



2 Display the **<SETUP>** screen.



3 Display the <Camera> screen.



4 Configure the camera settings.



· Scroll the page to show more items.

Setting items • **ON**: Displays the picture from [R-CAM Interruption1 the rear view camera when you shift the gear to the reverse (R) position. **OFF** (Initial): Select this when no camera is connected. [Parking **ON** (Initial): Displays the parking **Guidelines**1 quidelines to enable easier parking when you shift the gear to the reverse (R) position. **OFF**: Hides the parking auidelines. [Guidelines Adjusts the parking guidelines according to the size of the car. Setupl parking space and so on. (See the right column.) [Front Camera] • ON: Activates the front view camera. Select this to use the front view camera. **OFF** (Initial): Select this when no camera is connected. **[Front Camera ON**: Displays the picture Mirror Image] from the front view camera horizontally reversed. **OFF** (Initial): Displays the picture from the front view camera as it is.

Adjusting the parking guidelines

- 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 [Guidelines Setup] on the <Camera> screen. (See the far left column.) The guidelines settings screen is displayed.
- **2** Touch one of the marks to adjust (1), then adjust the position of the selected mark (2).



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

 Touch [Initialize] and after touch [Yes] to set all the H marks to the initial default position.

☐ Displaying the picture from the camera

The camera screen is displayed when you shift the gear to the reverse (R) position.



• To erase the operation buttons, touch the screen. Touching the screen again displays the operation buttons.

To display the picture from the camera manually

• When [Front Camera] is set to [ON], the picture from the front view camera is displayed. When [Front Camera] is set to [OFF], the picture from the rear view camera is displayed.

On the touch panel:

Select [Camera] on the pop-up short-cut menu. (Page 14)



On the monitor panel:

CAM (

DDX9903S DDX6903S DDX9703S DDX6703S DDX9716BTS





DDX916WSL

To switch the screen between the front view camera and the rear view camera



• Each time you touch the button, the screen is switched between the rear view screen and the front view screen.

To exit the camera screen



Using external audio/video players—AV-IN

When the operation buttons are not displayed on the screen, touch the area shown on the illustration.



· To change settings for video playback, see page 70.

☐ Starting playback

- 1 Connect an external component to the input terminal. (Page 85)
 - For DDX9903S/DDX9703S/DDX6903S/ DDX6703S/DDX9716BTS: Connect an external component to the AV-IN input terminal.
 - For DDX916WSL: Connect an external component to the AV-IN1 or AV-IN2 input terminal.
- **2** Select the source to play an external component. (Page 13)
 - For DDX9903S/DDX9703S/DDX6903S/ DDX6703S/DDX9716BTS: Select "AV-IN" as the source.
 - For DDX916WSI: Select "AV-IN1" or "AV-IN2" as the source.
- 3 Turn on the connected component and start playing the source.

Using a smartphone—HDMI/MHL

When the operation buttons are not displayed on the screen, touch the area shown on the illustration.



· To change settings for video playback, see page 70.

■ What is HDMI/MHL?

HDMI stands for High Definition Multi-media Interface. HDMI connections can transfer digital video source signals (such as from a DVD player) without converting them to analog.

A new feature that has been added to HDMI that extends its capabilities further is MHL, or Mobile High-definition Link.

Both interfaces allow your smartphone to connect to the device. When it is connected, you can see your smartphone's screen on the monitor.

About Wireless Display Adapter

This unit is compatible with Wireless Display Adapters. Connecting a Wireless Display Adapter (KCA-WL100: optional accessory) to the HDMI/MHL input terminal (Page 85) enables you to enjoy listening to music, watching videos, or viewing pictures over a wireless connection.

• For details about Wireless Display Adapter settings, etc., refer to the instructions supplied with the Wireless Display Adapter.

☐ Displaying the screen of the smartphone

You can display the screen of smartphones connected via the HDMI/MHL input terminal.

- Connect your smartphone to the HDMI/ MHL input terminal. (Page 84)
 - Use HDMI cable KCA-HD100 (optional accessory) or MHL cable KCA-MH100 (optional accessory).
- 2 Select "HDMI/MHL" as the source. (Page 13)
- Start an application or playback on your smartphone.



[Hide]

Hides the indicators and buttons.

[.....]

Displays the < Graphic Equalizer> screen. (Page 66)

Watching a TV (Only for DDX9716BTS/ DDX916WSL)

When the operation buttons are not displayed on the screen, touch the area shown on the illustration.



· To change settings for video playback, see page 70.

Preparation

- Connect the TV tuner box to the input terminal to the AV-IN input terminal (for DDX9716BTS)/AV-IN1 input terminal (for DDX916WSL) and TV tuner remote control output terminal. (Page 85)
- Select [ON] for [TV Tuner Control]. (Page 75)

☐ Displaying the TV screen

- 1 Select "AV-IN" (for DDX9716BTS) or "AV-IN1" (for DDX916WSL) as the source. (Page 13)
- Turn on the TV.



[Hide]

Hides the indicators and buttons.



Displays the **<Graphic**

Equalizer> screen. (Page 66)

[CH ▼]/[CH ▲] Changes the channels.

Using ADS adapter features (Only for DDX9903S/DDX9703S/DDX6903S/DDX6703S)

By connecting the ADS adapter (commercially available) to the iDatalink terminal (Page 85), this unit can access the satellite radio source provided for the vehicle and vehicle information can be displayed on this unit.

Preparation:

Configure the settings on the **<OEM SETUP>** screens beforehand. (Page 75)

☐ Selecting ADS adapter features

1 Display the source/option selection screen. On the Home screen or the source control screen:

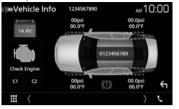


2 Select ADS adapter features on the source/ option selection screen.



 To display more items, touch [ζ]/[)] or flick to change the page.

Example: when "Vehicle Info" is selected



☐ Available items with ADS adapter

[Vehicle Info]* Displays information about the tire

pressure.

[Satellite Displays the control screen of the Radio] Displays the control screen of the satellite radio source provided for

the vehicle

[Media Player] Displays the control screen of the

media player source provided for

the vehicle.

[TEL] Displays the control screen of the

mobile phone provided for the

vehicle.

[BT Displays the control screen of the Streaming] Bluetooth audio player source

provided for the vehicle.

[Reader Displays information about the instruments such as the

speedometer.

[Gauges] Displays the gauges of the vehicle.

[Climate]* Displays information about the air

conditioner of the vehicle.

[Parking Displays the guides for parking the

Assist1 vehicle.

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

Using the external navigation unit (Only for DDX9716BTS/DDX916WSL)

You can connect a navigation unit (KNA-G630: optional accessory) to the navigation input terminal so that you can view the navigation screen. (Page 85)

• The navigation guidance comes out of the front speakers even when you are listening to an audio source.

☐ Viewing the navigation screen



- To display more items, touch [⟨1/[⟩] or flick to change the page.
- · While the navigation screen is displayed, the touch panel operations are available only for navigation.
- The aspect ratio of the navigation screen is fixed to <Full> regardless of the <Aspect> setting (Page 70).

To exit the navigation screen DDX9716BTS DDX916WSL





☐ Adjusting the guidance volume

Display the source/option selection screen. On the Home screen or the source control screen:



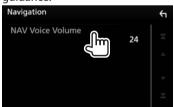
Display the **<SETUP>** screen.



Display the **<Navigation>** screen.



Adjust the volume of the navigation guidance.



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.

Notes

- 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 mobile phones compatible with Phone Book Access Profile (PBAP)

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
- Dialed calls, received calls, and missed calls: up to 50 entries in total

Connecting Bluetooth devices

☐ Activating/deactivating the Bluetooth function

When you use the Bluetooth device, activate the Bluetooth function on the unit.

Display the source/option selection screen.
 On the Home screen or the source control screen:



2 Display the <SETUP> screen.



3 Display the **<Bluetooth Setup>** screen.



4 Activate (**[ON]**) or deactivate (**[OFF]**) the Bluetooth function.



☐ Registering and connecting a new Bluetooth device

When you connect a Bluetooth device to the unit for the first time, pair the unit and the device. Pairing allows Bluetooth devices to communicate with each other.

- You cannot register the Bluetooth device when you are using the following sources: "Bluetooth", "iPod", "Android Auto", "Apple CarPlay", or "Mirroring". If you want to register the Bluetooth device while using one of the above mentioned sources, send the connection request from the Bluetooth device and register it.
- The pairing method differs depending on the Bluetooth version of the device.
 - For devices with Bluetooth 2.1: You can pair the device and the unit using SSP (Secure Simple Pairing) which only requires confirmation.
- For devices with Bluetooth 2.0: You need to enter a PIN code both on the device and unit for pairing.
- You can register up to 10 devices in total.
- Two Bluetooth devices can be connected at a time.
- To use the Bluetooth function, you need to turn on the Bluetooth function of the device.
- When a Bluetooth mobile phone is connected, the signal strength and battery level are displayed when the information is acquired from the device.

Auto pairing

When < Auto Pairing > is set to [ON], iOS devices (such as iPhone) are automatically paired when connected via USB. (Page 61)

Pairing a Bluetooth device from the target device

Search for the unit ("DDX****") from your Bluetooth device and operate the device to register.

For a Bluetooth device compatible with SSP (Bluetooth 2.1):

Confirm the request both on the device and the unit.





• Touch [No] to reject the request.

For a Bluetooth device compatible with Bluetooth 2.0:

Select the unit ("DDX****") on your Bluetooth device.

- If a PIN code is required, enter the PIN code shown on the screen (initial: "0000").
 - To change PIN code, see page 55.



Determine usage as a mobile phone.



- To use the Bluetooth device as a mobile phone, select the hands free number ([Hands Free1] or [Hands Free2]) to connect the device for.
- · When you do not want to use the Bluetooth device as a mobile phone, select [No Connection.1.
- To close the window, touch [Close].

When your Bluetooth device is compatible with A2DP or SPP: Determine usage as an audio player or a device with Apps installed.



- To use the device as an audio player, touch [Yes].
- When you do not want to use the Bluetooth device as an audio player, touch [No].
- 4 When your Bluetooth device is compatible with PBAP: Select whether to transfer the phonebook of your Bluetooth device to the unit or not.



- To transfer the phone book from your Bluetooth device, touch [Yes].
- When you do not want to transfer the phone book, touch [No].

☐ Connecting/disconnecting a paired Bluetooth device

Two devices can be connected simultaneously.

Display the source/option selection screen.
 On the Home screen or the source control screen:



2 Display the **<SETUP>** screen.



3 Display the <Bluetooth Setup> screen.



4 Display the **<Select Device>** screen.



5 Select the device you want to connect/ disconnect.



- · Scroll the page to show more items.
- The icons beside the paired device indicate the following:
 - 1/2: Connected as a mobile phone.
- –
 ☐: Connected as an audio player.
- **6** Select the usage of the device.



Each time you touch the selection, the usage is selected ("\sqrt{"}" appears) or deselected ("\sqrt{"}" disappears). Select to connect and deselect to disconnect the device.

- [TEL (HFP)1]/[TEL (HFP)2]: Mobile phone
- [Audio (A2DP)/App (SPP)]: Audio player/ device with Apps installed
- To close the window, touch [Close].

☐ Deleting a paired Bluetooth device

- Display the **Select Device** screen. (See the far left column.)
- 2 Display the < Device Remove > screen.



3 Select a device to delete (1), then touch [Delete] (2).



- Touch [All] to select all devices.
- Touch [All] to deselect all selected devices.
- Scroll the page to show more items.
- A confirmation message appears. Touch [Yes].

☐ Changing the PIN code

- Display the **<Bluetooth Setup>** screen. (Page 54)
- Display the PIN code input screen.



Enter the PIN code (1), then confirm the entry (2).



• Touch [\(\) to delete the last entry.

☐ Change the device name of the unit displayed on the paired device

- Display the **<Bluetooth Setup>** screen. (Page 54)
- Display the device name entry screen.



Enter the device name (1), then confirm the entry (2).



- Touch [\(\bigsiz \)] to delete the last entry.
- Touch [◄]/[▶] to move the entry position.

Using a Bluetooth mobile phone

☐ Receiving a call

When a call comes in...



- Call information is displayed if acquired.
- The call incoming screen is not displayed while the camera screen is displayed. To display the call incoming screen, shift the gear to the drive position.
 - Only for DDX6903S/DDX6703S: You can also display the call incoming screen while the camera screen is displayed by pressing and holding the Volume/MENU/TEL knob on the monitor panel.

To reject a call



When < Auto Response > is set to [ON] (Page 61) The unit answers incoming calls automatically.

☐ **Ending a call**While talking...



- □ Adjusting the volume during a call/ echo cancel level/noise reduction volume
- 1 Display the **Speech Quality** window. While talking...



2



<Microphone Adjusts the microphone volume Level> level.

-10 to +10 (initial: 0).

<Echo Cancel Adjusts the echo volume.

Level>*

-5 to +5 (initial: 0).

Adjusts the noise reduction

Reduction volume.

Level>* • **−5** to **+5** (initial: **0**).

- To close the window, touch [Close].
- * You can also adjust these items on the **<TEL SETUP>** screen. (Page 61)

☐ Switching between handsfree mode and phone mode

While talking...



Each time you touch the button, the talking method is switched (:handsfree mode / :phone mode).

☐ Switching between two connected devices

When two devices are connected, you can change the device to use.

While using a Bluetooth mobile phone, select the device you want to use.

Display the phone control screen.
 On the Home screen or the source control screen:



2 Select the device to use.



The active device is highlighted.

☐ Muting the volume of the microphone While talking...



To restore the volume, touch [v]].

☐ Sending dial tone during a call

You can send dial tone during a call using the DTMF (Dual Tone Multi Frequency) function.

1 Display the tone input window. While talking...



2 Input the tone to send.



• To close the window, touch [Close].

☐ Making a call

Display the phone control screen. On the Home screen or the source control screen:



- Only for DDX6903S/DDX6703S: You can also display the phone control screen by pressing and holding the Volume/MENU/TEL knob on the monitor panel.
- 2 Select a method to make a call.



[From the call history*

[From the phone book*

[★] From the preset list

• To preset, see page 59.

[Direct number entry

[🏘] Voice dialing

- You can display the <Bluetooth Setup> screen by touching [#[].
- * When the mobile phone is not compatible with Phone Book Access Profile (PBAP), the phone book is not displayed.

From the call history (missed calls/ received calls/ dialed calls)

Display the call history list (1), then select the target to make a call (2).



• Scroll the page to show more items.

From the phonebook

- To transfer phonebook from the connected Bluetooth mobile phone compatible with PBAP, see page 60.
- **1** Display the phonebook (①), then display the keyboard to search by initial (②).



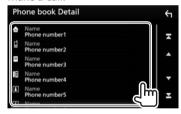
2 Select the initial to sort the list in the alphabetical order.



- If the initial character is a number, touch [1] and then select the number.
- Touch [I to delete the last entry.
- Touch [X] to hide the keyboard.
- **3** Select a contact to call.



- · Scroll the page to show more items.
- **4** Select the phone number from the list to make a call.



- · Scroll the page to show more items.
- You can select a first name or last name to use when sorting the list in alphabetical order on the <TEL SETUP> screen. (Page 61)

From the preset list

Display the preset list (1), then select the target to make a call (2).



Direct number entry

Display the direct number entry screen (①), enter the number (②), then make a call (③).



Voice dialing

- Available only when the connected mobile phone has a voice recognition system.
- Activate voice dialing.



- · You can also activate voice dialing by holding □ VOICE on the monitor panel.
- Say the name of the person you want to call.



• If the voice command is not recognized, touch [Restart], then say the name again.

To cancel voice dialing: Touch [Stop].

☐ Presetting phone numbers

You can preset up to 10 phone numbers.

Display the preset list. (Page 57)

2



Select a position to store into.



Select a method to add a phone number to preset list, then register the number to the preset list.



[Add number from phonebook] [Add number directl

Select a phone number from the phonebook (Page 58).

Enter a phone number on the

direct number entry screen, then touch [Set] to add to the preset list.

- To close the window, touch [Close].
- To display the preset list, touch [★] on the phone control screen.

To delete a phone number from the preset list: Select the phone number to delete on the < Edit Preset Dial> screen, then touch [Delete] on the <Edit Preset Number> window.

To delete all phone numbers from the preset list: Touch [Delete all] on the <Edit Preset Dial> screen.

☐ Editing phonebook

To transfer the phonebook

If the connected Bluetooth mobile phone is compatible with Phone Book Access Profile (PBAP), you can transfer the phonebook of the mobile phone to the unit.

 Display the phone book (1), then display the <Edit Phonebook> window (2).
 On the phone control screen:



2 Start transferring the phonebook.





- To close the <Edit Phonebook> window, touch [Close].
- To cancel the transferring the phonebook, touch [Cancel].

To delete contact from the phonebook

- 1 Display the **Edit Phonebook** window. (See the far left column.)
- 2 Display the **Delete Phonebook** screen.



- To close the window, touch [Close].
- **3** Select contacts to delete (1), then delete them (2).



- "✓" appears beside the selected bookmarks.
- Touch [All] to select all bookmarks.
- Touch [All] to deselect all selected bookmarks.
- Touch [Q A-Z] to search the contact by initial.
- · Scroll the page to show more items.

Settings for Bluetooth mobile phone

You can change various settings for using Bluetooth mobile phones on the <TEL SETUP> screen.

- Display the **<Bluetooth Setup>** screen. (Page 54)
- Display the **<TEL SETUP>** screen.



 You can also display the <Bluetooth Setup> screen by touching [a] on the phone control screen. (Page 57)



Configure the Bluetooth settings (1), then confirm the adjustments (2).



· Scroll the page to show more items.

☐ Setting items

Level>

<Noise

Level>

Reduction

<bluetooth <br="" hf="">Audio></bluetooth>	Select the speakers used for Bluetooth (both phone and audio player). Front: Front speakers only. All (Initial): All speakers.
<auto Response></auto 	 1 – 30 (in 5 second steps): The unit answers the incoming calls automatically. Set the calling ring time (seconds). OFF (Initial): The unit does not answer the calls automatically. Answer the calls manually.
<auto pairing=""></auto>	ON (Initial): Establishes pairing automatically with the connected iOS device (such as iPhone) even if the Bluetooth function is deactivated on the device. (Auto pairing may not work for some devices depending on the iOS version.) OFF: Cancels.
<sort order=""></sort>	Select a first name or last name to use when sorting the list in alphabetical order. • First: Sorts the list in the order of first name. • Last (Initial): Sorts the list in the order of last name.
<echo cancel<="" th=""><td>Adjusts the echo volume.</td></echo>	Adjusts the echo volume.

-5 to +5 (initial: 0).

• -5 to +5 (initial: 0).

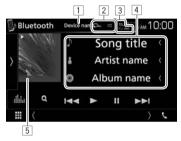
volume.

Adjusts the noise reduction

Using the Bluetooth audio player

- To connect a new device, see page 52.
- To connect/disconnect a paired device, see page 54.

☐ Indications and buttons on the source control screen



• The operation buttons, indications and information displayed on the screen differ depending on the connected device.

Playback information

- The information displayed on the screen differs depending on the connected device.
- 1 Connected device name
- 2 Playback mode (Page 62)
- 3 Signal strength and battery level (only when the information is acquired from the device)
- 4 Tag data (current track title/artist name/album title)*
 - Touching [<] scrolls the text if not all of the text is shown.
- 5 Artwork (Shown if the track contains artwork)
- Available only for devices compatible with AVRCP 1.3.

Continued on the next page...

Operation buttons

- Available buttons on the screen and operations differ depending on the connected device.
- [)] Displays the other operation button window.
 - To hide the window, touch [⟨].
- [Selects Repeat playback mode.
 - • Repeats the current track/file.
 - Repeats all tracks/files in the current folder.
 - — ALL: Repeats the all tracks/files in the device.
- [Selects Random playback mode.
 - Randomly plays all tracks in current folder.
 - ALL: Randomly plays all tracks in current album.
- Displays the **Graphic Equalizer**> screen. (Page 66)
- Displays the folder/track list. (See the right column.)
- [III] Selects a track. (Touch)
 - Reverse/forward search.*3 (Hold)
- [▶] Starts playback.[■] Pauses playback.
- **[BT DEVICE** Switches the Bluetooth audio player. **CHANGE**]
- To display all available operation buttons, touch
 [) to display the other operation button window.

☐ Selecting a track from the list

1 Display the music list screen.



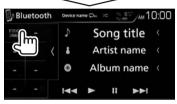
- 2 Select the folder, then the item in the selected folder.
 - For details about the list operation, see page 12.



☐ Switching the Bluetooth audio player

1 Display the Bluetooth device selection window.





Available Bluetooth audio player devices are listed.

2 Select the desired device.



To close the window, touch [Close].
 The selected device is connected.

^{*1} To cancel random mode, touch the button repeatedly until it is grayed out.

^{*2} Available only for devices compatible with AVRCP 1.5.

^{*3} Available only for devices compatible with AVRCP 1.3.

Settings for using applications of iPod/iPhone/Android/BlackBerry

Before using applications of iPod/iPhone/Android/ BlackBerry, select the device to use and connection method.

Preparation:

Connect iPod touch/iPhone/Android/BlackBerry device.

- For Android/BlackBerry: Connect the Android/ BlackBerry device via Bluetooth or both with a cable and via Bluetooth.
 - For Bluetooth connection, see page 52.
 - For wired connection, see page 84.
- For iPod touch/iPhone: Connect iPod touch/ iPhone with a cable, via Bluetooth, or both with a cable and via Bluetooth. (Page 22)
- Display the source/option selection screen. On the Home screen or the source control screen:



Display the **<SETUP>** screen.



Display the **<AV>** screen.



Set [Automotive Mirroring] to [OFF].



Display the < APP/iPod SETUP > screen.



Select the device and connection method for <APP Connection select>.



<Android Bluetooth> Select this to use Apps with an Android device connected via Bluetooth.

<iPhone Rluetooth> Select this to use Apps with iPod/iPhone connected via

Bluetooth

<HDMI/MHL>*

Select this to use Apps with iPod/iPhone/Android device connected both by cable to the HDMI/MHL input terminal and via Bluetooth.

<iPhone USB> Select this to use Apps with iPod/iPhone connected using KCA-iP102 (optional accessory) or KCA-iP103 (optional accessory).

Finish the procedure.



* Only for DDX9903S/DDX9703S/DDX916WSL.

Selecting different sources for the front and rear monitors—Zone Control

You can select different sources for both this unit and an external monitor connected to the VIDEO OUT and AV-OUT AUDIO terminals. (Page 85)

Display the source/option selection screen. On the Home screen or the source control screen.



Display the **<Audio>** screen.



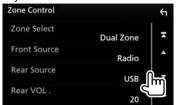
• You can also display the < Audio > screen by selecting [Audio] on the pop-up short-cut menu. (Page 14)



Display the **<Zone Control>** screen.



Select the source for front and rear, and adjust the volume for the rear source.



[Zone Select]

Selects whether different sources are selected for the front and rear monitors.

- Dual Zone: Selects different sources. (The DUAL indicator lights up.)
- Single Zone: Selects the same source.

[Front Source]* Selects the source for the front monitor.

[Rear Source]*

Selects the source for the rear monitor.

[Rear VOL.]*

Adjusts the volume for the rear source.

· When the rear speaker sound is switched, the audio source that is output at the AV-OUT AUDIO terminal is also switched to the same source.

- When [Zone Control] is set to [Dual Zone]. the following operations/performances are not available
 - Output from the subwoofer
 - Adjustment on the **<Graphic Equalizer>** screen (Page 66)
 - Adjustment on the **<Sound Effect>** screen (Page 70)
 - Settings on the **<Speaker Select>** screen (Page 65)
 - Settings on the <**Position/DTA**> screen (Page 67)
- You cannot select iPod if it is connected via Bluetooth.
- If you select USB, iPod, Disc, Mirroring, Bluetooth audio, Apple CarPlay or Android Auto as the Front Source, you cannot select USB or iPod as the Rear Source.
- * Selectable only when [Zone Select] is set to [Dual Zone].

Sound adjustment—Audio

You can adjust the various audio settings on the <Audio> screen.

- You cannot change the < Audio > settings screen in the following situations:
 - When the unit is in standby (Page 10)
 - When the Bluetooth phone is used (making or receiving a call, during a call, or while voice dialing)
 - During navigation guidance*
- * Only for DDX9716BTS/DDX916WSL.

☐ Setting the car type/speakers/crossover frequency

Display the source/option selection screen. On the Home screen or the source control screen:



Display the **<Audio>** screen.



• You can also display the < Audio > screen by selecting [Audio] on the pop-up short-cut menu. (Page 14)



Display the **<Speaker Select>** screen.



Select a car type.



A selection window appears for car type. Select an item, then touch [Close] to close the window.

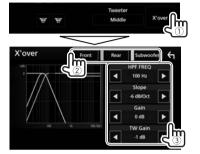
Select a speaker (front speakers, rear speakers, or subwoofer) to set (1), then location and speaker/tweeter size of the selected speaker (2).



A selection window appears for location and speaker/tweeter setting. Select an item, then touch [Close] to close the window.

- Repeat steps 1) and 2) to set all speakers.
- · When a speaker is not connected, select [None].
- When setting the front speakers, also select the speaker size for <**Tweeter**>.

Display the **<X'over>** screen (1), select the speaker type (2), then adjust the crossover frequency of the selected speaker (3).



<HPF FREQ> Adjusts the crossover frequency

for the front or rear speakers

(high pass filter).*1

Adjusts the crossover for the <LPF FREO>

subwoofer (low pass filter).*2

Adjusts the crossover slope.*3 <Slope> Adjusts the output volume of <Gain> the selected speaker.

<TW Gain> Adjusts the output volume of

the tweeter.*4 *5

Selects the phase for the <Phase

Inversion> subwoofer.*2

- *1 Appears only when the front or rear speakers are selected.
- *2 Appears only when the subwoofer is selected.
- *3 Not adjustable when <HPF FREQ> or <LPF FREQ> is set to <Through>.
- *4 Appears only when the front speakers are selected.
- *5 Adjustable only when < Tweeter> is set to < Small>, <Middle>, or <Large> on the <Speaker Select> screen.

☐ Using the sound equalization

- The adjustment is memorized for each source until you adjust the sound again. If the source is a disc, the adjustment is stored for each of the following categories.
 - DVD-Video
 - CD/VCD/Audio files/Video files (Page 87)
- You cannot adjust the sound when the unit is in standby.

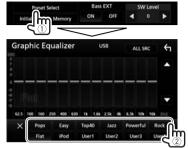
Selecting a preset sound mode

- 1 Display the **Audio**> screen. (Page 65)
- 2 Display the **Graphic Equalizer**> screen.



You can also display the < Graphic Equalizer>
screen by touching [####] on the source
control screen.

3 Display the preset sound modes (①), then select a sound mode (②).



Touch [X] to hide the preset sound modes.

Storing your own adjustments—Adjusting the sound precisely

- Display the **Graphic Equalizer**> screen. (See the left column.)
- **2** Select a band and adjust the level of the selected band.
 - You can adjust the level by dragging the slider or using [▲]/[▼].
 - Repeat this step to adjust the level of other bands.



Activate ([ON]) or deactivate ([OFF]) the bass (<Bass EXT>) (1), and then adjust the subwoofer level (<SW Level>)* (2).



- Touch [◄]/[▶] to adjust <SW Level>.
- When <Bass Ext> is set to [ON], a frequency lower than 62.5 Hz is set to the same gain level as 62.5 Hz.
- 4 Store the adjustment.



A user selection window appears. Select from [User 1] to [User 4] to store your adjustment, then touch [Close] to close the window.

- To apply the adjusted equalizer to all playback source, touch [ALL SRC] on the <Graphic Equalizer> screen, then touch [OK] to confirm.
- To make the current EQ curve flat, touch [Initialize].
- * Not adjustable when <None> is selected for subwoofer on the <Speaker Select> screen. (Page 65)

☐ Setting the listening position

You can adjust the sound effects according to your listening position.

- Display the **<Audio>** screen. (Page 65)
- Display the <**Position/DTA**> screen.



Touch [Listening Position] (1), then select the listening position ([Front L], [Front R], [Front All], or [All]) (2).



Adjusting the Digital Time Alignment (DTA)

Make fine adjustments to the delay time of the speaker output to create a more suitable environment for your vehicle.

- Display the < Position/DTA > screen. (See the left column.)
- Display the DTA adjustment screen.

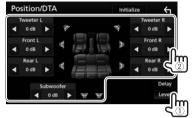


Touch [Delay] (1), then adjust the Digital Time Alignment (DTA) value for each speaker (2).



- Touch [◄]/[▶] to adjust the value.
- · To return to the initial setting of Delay and Level, touch [Initialize] and [YES] in the confirmation screen.

4 Touch [Level] (1), then adjust the output volume for each speaker (2).



- Touch [◄]/[▶] to adjust the level.
- · To return to the initial setting of Delay and Level, touch [Initialize] and [YES] in the confirmation screen.

☐ Localizing the sound image—Front Focus

You can localize the sound image in front of the selected seat.

- 1 Display the **Position/DTA** screen. (Page 67)
- 2 Touch [Front Focus] (1), then select the listening position to set as the front position (2).



- When you are sitting on the [Front All] (front seats) or [All] (front and rear seats) position, select left ("Priority L") or right ("Priority R") to specify the position to localize the sound image.
- 3 Display the <Front Focus Adjust> screen.



4 Touch [**Delay**] (1), then adjust the sound image precisely (2).



[Sound Image LR (Front)] [Sound Image LR (Rear)] [Size of the Virtual Sound Field] Adjusts the sound image to set on the front position.
Adjusts the sound image to set on the rear position.
Adjusts the virtual sound field to the desired field size.

 If the sound image moves out of the front position, adjust [Sound Image LR (Front)]/[Sound Image LR (Rear)].

[Subwoofer Delay]

Adjusts the time alignment of the subwoofer.

 To return to the initial setting of Delay and Level, touch [Initialize] and [YES] in the confirmation screen. **5** Touch [**Level**] (①), then adjust the output volume for each speaker (②).



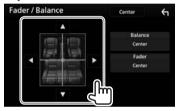
- Touch [◀]/[▶] to adjust the level.
- To return to the initial setting of Delay and Level, touch [Initialize] and [YES] in the confirmation screen.

☐ Adjusting the volume balance

- Display the **<Audio>** screen. (Page 65)
- Display the **<Fader/Balance>** screen.



Adjust the volume balance.



- Touch [▲]/[▼] to adjust the front and rear speaker output balance.
- Touch [◄]/[▶] to adjust the left and right speaker output balance.
- · You can also make adjustments by dragging the cursor.
- To clear the adjustment, touch [Center].

☐ Adjusting the volume output according to different sources

You can adjust and store the auto-adjustment volume level for each source. The volume level will automatically increase or decrease when you change the source.

- Display the **<Audio>** screen. (Page 65)
- Display the **<Volume Offset>** screen.



Adjust the volume output level for each source.



- Scroll the page to show more items.
- · To initialize the setting value, touch [Initialize].
- 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.

☐ Adjusting the sound effect

- 1 Display the **<Audio>** screen. (Page 65)
- 2 Display the **<Sound Effect>** screen.



3 Adjust each item.



<Bass Boost>

Selects the bass boost level.
• OFF (Initial)/1/2/3

<Loudness>

Adjusts loudness. (The LOUD indicator lights up when the loudness is adjusted.)

•

• OFF (Initial)/Low/High

Prive Reduces the driving noise by raising the bandwidth.

<Space Enhancer>*1 Virtually enhances the sound space using the Digital Signal Processor (DSP) system. Select the enhance level.

· OFF (Initial)/ON

 OFF (Initial)/Small/ Medium/Large <Supreme>

Restores the sound lost due to audio compression to a realistic sound.

<Realizer>

• OFF/ON (Initial)
Virtually makes the sound more realistic using the Digital Signal Processor (DSP) system. Select the sound level.

<Stage EQ>

• **OFF** (Initial)/**1/2/3** You can move the center of the sound to the lower or higher point. Select the height.

- OFF (Initial)/Low/Middle/ High
- *1 You cannot change the setting when "HD Radio" (for DDX9903S/DDX9703S/DDX6903S/DDX6703S)/"Radio" (for DDX9716BTS/DDX916WSL) is selected as the source.

Adjustment for video playback

Display the pop-up short-cut menu.
DDX9903S
DDX6903S
DDX9703S
DDX9716BTS







2 Display the picture adjustment screen.



3 Adjust the picture.



<Backlight> Adjusts the brightness of the backlight. (-4 to +4)

<Contrast> Adjusts the contrast. (-4 to +4) Adjusts the blackness. (-4 to <Black> +4)

<Brightness> Adjusts the brightness. (-4 to

<Color> Adjusts the color, (-4 to +4)<Tint> Adjusts the tint, (-4 to +4)<Aspect> Selects the aspect ratio.

- Full: Displays the picture fully. The aspect ratio is changed if necessary.
- Normal: Display the picture in the aspect ratio of 4:3.
- Auto: Displays the picture by selecting the appropriate aspect ratio automatically. (Disc) Displays the picture fully in the original aspect ratio. (USB)
- Adjustable items are different depending on the current source.
- The image quality can be set for each source. Backlight and Black are common to all sources.

Changing the display design

☐ Customizing the panel color

Display the source/option selection screen. On the Home screen or the source control screen:



Display the **<SETUP>** screen.



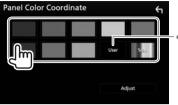
Display the **<Display>** screen.



Display the < Panel Color Coordinate> screen.



Select a panel color.



- Selecting [Scan] changes the illumination color gradually.
- * Store your own color adjustment beforehand. (See below.)

Making your own color adjustment

Display < Panel Color Coordinate > screen. (See the left column.)



Adjust the color.



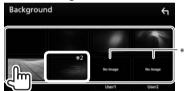
The adjustment is stored in [User].

☐ Customizing the background

- 1 Display the **Display** screen. (Page 71)
- 2 Display the <Background> screen.



3 Select a background.



- *1 Store your own scene beforehand. (See the right column.)
- *2 The color you have selected at [Panel Color] is added on the image. If you select "Scan" at [Panel Color], you cannot select this image.

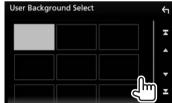
☐ Storing your favorite image for the background

You can set your favorite image stored on the connected USB device.

- Use a JPEG file with a resolution of 800 x 480 pixels.
- The color of the captured image may look different from that of the actual scene.
- 1 Connect the USB device on which the image is stored. (Page 83)
- **2** Display the **<Background>** screen. (See the left column.)
- 3 Select [User1 Select] or [User2 Select] to store the image for.

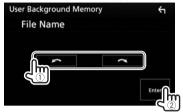


4 Select the folder, then the file for the background image in the selected folder.



· Scroll the page to show more items.

5 Rotate the image if necessary (①), then confirm the selection (②).



Touch **[Enter]** to store the new image. (The existing image is replaced with the new one.)

Customizing the system settings

☐ Memorizing/recalling the settings

- You can memorize the settings changed in the <Audio> screen and recall the memorized settings any time.
- The memorized settings are kept even when the unit is reset.
- You cannot perform the operation when **ISETUP** Memory] is set to [Lock]. Unlock the setting beforehand.
- Display the source/option selection screen. On the Home screen or the source control screen:



Display the **<SETUP>** screen.



Display the **<Special>** screen.



Select an option.



[Audio SETUP Memorizes the current audio Memory] setting. **[Audio SETUP** Recalls the memorized audio Recall1 setting. Clears the AUDIO SETUP [Audio SETUP Memory and the currently Clear] memorized audio setting.

A confirmation message appears. Touch [Yes].

☐ Locking the settings

You can lock the settings for <**Audio**> to prevent them from being changed.

- Display the **Special**> screen. (See the far left column.)
- Select [Lock] to lock the settings.



To unlock the setting: Touch [SETUP Memory] to select [Unlock].

☐ Adjusting the touch position (Only for DDX9703S/DDX6903S/DDX6703S/DDX9716BTS/DDX916WSL)

You can adjust the touch position on the touch panel if the position touched and the operation performed do not match.

Display the source/option selection screen.
 On the Home screen or the source control screen:



2 Display the **<SETUP>** screen.



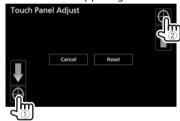
3 Display the **<User Interface>** screen.



4 Display the <Touch Panel Adjust> screen.



5 Touch the center of the marks at the lower left and at the upper right as instructed.



- To reset the touch position, press [Reset].
- To cancel the current operation, press [Cancel].

Setting menu items—SETUP

☐ Displaying the <SETUP> menu screen

Display the source/option selection screen. On the Home screen or the source control screen:



2 Display the **<SETUP>** screen.





 You can also display the <SETUP> screen by selecting [SETUP] on the pop-up short-cut menu. (Page 14)



□<AV> setting screen

[APP/iPod SETUP]

- APP Connection select: Select the device and connection method. (Page 63)
- **iPod Connection**: Select the connection method of iPod/iPhone. (Page 22)

[TV Tuner Control]*1

- ON: Enables control of TV operation on "AV-IN" (for DDX9716BTS)/"AV-IN1" (for DDX916WSL).
- OFF (Initial): Select this to use "AV-IN" (for DDX9716BTS)/"AV-IN1" (for DDX916WSL) with components other than TV Tuner.

[AV-OUT]

You can determine the use of the external component connected to the VIDEO OUT/ AV-OUT AUDIO terminal.

 OFF (Initial)/AV-IN/AV-IN1/AV-IN2/DISC/USB/ iPod

[Automotive Mirroring]

Select the usage of the iPhone compatible with CarPlay. (Page 26)

- ON (Initial): Allows "Apple CarPlay"*2/"Android Auto"*3 to be selected on the Home screen.
- OFF: Allows "Mirroring" to be selected on the Home screen.

[CarPlay Sidebar]

Select the position of the control bar (left or right) shown on the touch panel.

· Left (Initial)/Right

[OEM SETUP]*4

Confirm the information about/change the settings for using the ADS adapter.

- *1 Only for DDX9716BTS/DDX916WSL.
- *2 "Apple CarPlay" is displayed as the source on the Home screen when iPhone compatible with CarPlay is connected.

- *3 Only for DDX9903S/DDX9703S/DDX9716BTS/DDX916WSL.
- *4 Only for DDX9903S/DDX9703S/DDX6903S/DDX6703S.

□ < Display > setting screen

[Dimmer]

- ON: Activates dimmer.
- · OFF: Cancels.
- **SYNC** (Initial): Dims the screen and button illumination when you turn on the headlights.
 - The ILLUMI lead connection is required.
 (Page 81)*1

[OSD Clock]

Select if you want to display the clock while watching DVD video, etc.

· ON (Initial)/OFF

[Panel Color]

Change the panel color. (Page 71)

[Background]

Change the background design. (Page 72)

*1 Only for DDX9903S/DDX9703S/DDX6903S/DDX6703S/DDX9716BTS.

□ < User Interface > setting screen

[Steering Remote Controller]*1

Assign functions to the keys on the remote controller of the steering wheel. Contact your Kenwood dealer for details.

[Beep]

- ON (Initial): Activates the key-touch tone.
- OFF: Cancels.

[Parking Assist Display]*2*3

When an ADS adapter is connected to the iDatalink terminal (Page 85), you can display information about obstacles around the car.

- ON: Always displays information.
- **Dyn.** (Initial): Displays information when the sensor detects obstacles.
- OFF: Cancels.

[Parking Assist Position]*2*3

Select where information about obstacles is displayed on the screen.

Left/Right (Initial)

[Language Select]

Select the text language used for on-screen information.

American English (en) (Initial)/British English (en)/ Nederlands (nl)/Français (fr)/Deutsch (de)/ Italiano (it)/Español (es)/(ar) עולבעייגי Português (pt)/Čeština (cs)/Polski (pl)/ Magyar (hu)/Русский (ru)/ภาษาไทย (th)/ Türkçe (tr)/中文 (zh)/(he) עברית Bahasa Melayu (ms)/Bahasa Indonesia (id)

[Touch Panel Adjust]*5

Adjust the touch positions of the buttons on the screen. (Page 74)

[Clock]

Select the method to set the clock. (Page 6)

[Time Zone]

Select the time zone to synchronize the clock with the GPS. (Page 6)

[Clock Adjust]*4

Adjust the clock manually. (Page 6)

- *1 Only for DDX9716BTS/DDX916WSL.
- *2 Only for DDX9903S/DDX9703S/DDX6903S/DDX6703S.
- *3 This setting is available when an ADS adapter is connected to the iDatalink terminal. (Page 85)
- *4 Available when [Clock] is set to [Manual].
- *5 Only for DDX9703S/DDX6903S/DDX6703S/DDX9716BTS/ DDX916WSL

□ < Camera > setting screen

[R-CAM Interruption]

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

[Parking Guidelines]

- ON (Initial): Displays the parking guidelines to enable easier parking when you shift the gear to the reverse (R) position.
- **OFF**: Hides the parking guidelines.

[Guidelines Setup]

Adjust the parking guidelines. (Page 47)

[Front Camera]

- **ON**: Activates the front view camera. Select this to use the front view camera.
- OFF (Initial): Select this when no camera is connected.

[Front Camera Mirror Image]

- **ON**: Displays the picture from the front view camera horizontally reversed.
- OFF (Initial): Displays the picture from the front view camera as it is.

□ <Special> setting screen

[DEMO]

- ON (Initial): Activates the demonstration on the screen.
- · OFF: Cancels.

[SETUP Memory]

Locks or unlocks the Audio SETUP Memory/Recall/ Clear. (Page 73)

[Audio SETUP Memory]

Memorizes the current audio setting. (Page 73)

[Audio SETUP Recall]

Recalls the memorized audio setting. (Page 73)

[Audio SETUP Clear]

Clears the AUDIO SETUP Memory and the currently memorized audio setting. (Page 73)

[Software Information]

Display the version information of the software. You can update the software.

[Open Source Licenses]

Show 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.

□ <Bluetooth> setting screen

[Bluetooth]

- ON (Initial): Activates the Bluetooth function of the unit.
- OFF: Cancels.

[Select Device]

Connect or disconnect the paired device. (Page 54)

[Device Name]

Display/change the device name to be shown on the Bluetooth device. (Page 55)

[PIN Code]

Change the PIN code of the unit. (Page 55)

[Device Address]

Display the device address of the unit.

[TEL SETUP]

Configure the setting for using a Bluetooth mobile phone. (Page 61)

□<Security> setting screen

[SI]*1

- ON (Initial): Activates the security function.
- OFF: Cancels.

[Security Code Set]*2

Register the security code for the unit. (Page 4)

[Security Code Cancellation]*2

Clear the security code. (Page 4)

[Security Code Change]*2

Change the security code. (Page 4)

- *1 Only for DDX9903S/DDX9703S/DDX6903S/DDX6703S/DDX9716BTS.
- *2 Only for DDX9716BTS/DDX916WSL.

□ <Navigation> setting screen (only for DDX9716BTS/DDX916WSL)

[NAV Voice Volume]

Adjust the volume of the navigation guidance. (Page 51)

REMOTE CONTROLLER

Overview

DDX9716RTS/DDX916WSI ·

This unit can be operated using the Remote Controller (RC-DV340) supplied with this unit.

DDX9903S/DDX9703S/DDX6903S/DDX6703S: Optional Remote Controller KNA-RCDV331 is designed for controlling this unit. Refer to the instruction manual that comes with the remote controller.

↑ Caution:

- Put the Remote Controller in a place where it will not move during braking or other operations. A dangerous situation could result if the Remote Controller 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 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

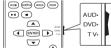
Use two "AAA"/"R03"-size batteries. Insert the batteries with the + and - poles aligned properly, following the illustration inside the case.



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

☐ Remote Controller mode switch

The functions operated from the remote controller differ depending on the position of the mode switch.



AUD mode: Switch to this mode when controlling a selected source or radio source, etc.

DVD mode: Switch to this mode when playing DVDs or CDs etc. with the player integrated in this unit. TV mode: Not used.

- The position of the remote control mode switch is indicated in the title of each mode, e.g., "AUD mode".
- When controlling a player that is not integrated in the unit, select "AUD" mode.

Operations from the remote controller

☐ Common operations (AUD mode)

SRC	Selects the source.Hangs up the incoming/current call.
▲/▼ VOL	Adjusts the volume level.
ATT	Attenuates/restores the sound.
DISP/V.SEL	Switches to the navigation screen.*1
ENTER	Enters options.
(12)	Answers incoming calls.
FNC/PBC/ MENU	Displays the control screen of current source. (USB, iPod, DISC)
MODE/ TOP MENU	Changes the aspect ratio. The aspect ratio changes each time you press this key.
OPEN	Adjusts the panel angle.*2 • The panel angle changes each time you press this key.

^{*1} Available for DDX9716BTS/DDX916WSL only.

^{*2} Available for DDX9903S/DDX9703S/DDX9716BTS/DDX916WSL only.

REMOTE CONTROLLER

□ DVD/VCD (DVD mode)

▲/▼/◀/▶	Moves the cursor when displaying a menu.
 ⊲⊲/⊳⊳	Selects a track.
▶ /II	Starts/pauses playback.
•	Stops and memorizes the point where the disc stops.
0 – 9	Specifies the number to search for in direct search. Fast forwards/backwards. Fast forward/backward speed changes each time you press this key. Solow forwards/
MACDE /TOD MENU.	backwards during pause.
MODE/TOP MENU	Shows the disc top menu.
FNC/PBC/MENU	Shows the disc menu.
SUBTITLE	Changes the subtitle language.
ZOOM	Changes the zoom ratio.The zoom ratio changes each time you press this key.
ANGLE	Changes the picture angle. The picture angle changes each time you press this key.
AUDIO	Changes the voice language. The voice language changes each time you press this key.
DIRECT	Enters direct search mode. (See the far right column.)
CLEAR	Deletes a character while in direct search mode.

☐ Music Disc/Audio file/Video file (AUD mode)

AM - /FM +	Selects a folder.
	Selects a track/file.
▶ /II	Starts/pauses playback.
0 – 9	Music Disc: Specifies the number to search for in direct search.
DIRECT	Music Disc: Enters direct search mode. (See the right column.)

☐ Radio (AUD mode)

=	=
AM -/FM +	Selects the band.
	Searches for stations.
▶ /II	Changes the seek mode (AUTO1, AUTO2, MANU).
0 – 9	Specifies the frequency of the station to receive to search for in direct search.
DIRECT	Enters direct search mode. (See the right column.)

☐ iPod (AUD mode)

	Selects music.
▶ / II	Starts/pauses playback.

☐ USB (AUD mode)

AM –/FM + Selects a folder.	
	Selects a file.
▶ /II	Starts/pauses playback.

Searching for an item (chapter/title/track) directly

- Press DIRECT to enter the search mode.
 Each time you press DIRECT, the item to search for changes.
- 2 Press a number button to select a desired item.
- 3 Press ENTER to confirm the selection.

Searching for a tuner frequency directly

- 1 Press DIRECT to enter the search mode.
- 2 Press number buttons to enter a frequency.
- 3 Press ► to confirm the entry.

Before installing the unit

↑ WARNING

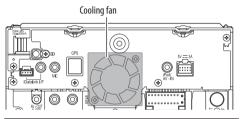
- If you connect the ignition wire (red) and the battery wire (vellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.
- Do not cut out the fuse from the ignition wire (red) and the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

A Precautions on installation and connection

- 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 12 V DC power supply.
- Do not install the unit in a location 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 have 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.
- Only for DDX9903S/DDX9703S/DDX9716BTS/ DDX916WSL: If the console has a lid, make sure to install the unit so that the monitor panel will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires are not 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 both connectors either to the front output terminals or to 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 \bigcirc 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.
- Do not press hard on the panel surface when installing the unit in the vehicle. Otherwise scratches, damage, or failure may result.

· This unit has a 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 prevent the cooling of the internal temperature and result in malfunction.



↑ CAUTION

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

☐ Supplied accessories for installation

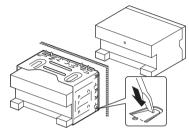
- (1) Wiring harness × 1
- ② Trim plate \times 1*1
- ③ Extraction keys x 2*1
- $\stackrel{\text{\tiny (4)}}{}$ Flat head screws (M5 \times 7 mm) \times 6
- \bigcirc Round head screws (M5 \times 6 mm) \times 6
- \bigcirc USB extension cable $(1.0 \text{ m}) \times 1$
- \bigcirc GPS antenna (3.5 m) \times 1
- (8) Metal plate × 1
- 9 Antenna extension cable × 1*2
- 10 Steering Remote cable × 1*3
- \bigcirc Microphone (3 m) \times 1
- *1 Only for DDX9903S/DDX9703S/DDX6903S/DDX6703S/DDX9716BTS.
- *2 Only for DDX916WSL.
- *3 Only for DDX9716BTS/DDX916WSL.

☐ Installation procedure

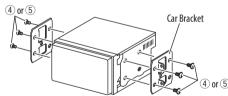
- 1 To prevent a short circuit, remove the key from the ignition and disconnect the \bigcirc battery.
- Make the proper input and output wire connections for each unit.
- **3** Connect the speaker wires of the wiring harness.
- **4** Connect the wiring harness wires in the following order: ground, battery, ignition.
- Connect the wiring harness connector to the unit.
- Install the unit in your car.
 - Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (e.g., the sound may skip).
- Reconnect the ⊖ battery.
- Configure < Initial SETUP>. (Page 4)

Installing the unit

☐ Installing the unit (Only for DDX9903S/ DDX9703S/DDX6903S/DDX6703S/ DDX9716BTS)



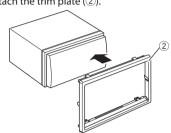
- Bend the tabs of the mounting sleeve with a screwdriver or similar utensil and attach it in place.
- ☐ Installing the unit using the mounting bracket removed from the car



• Select the appropriate type of screw for the mounting bracket: flat head (4) or round head (5).

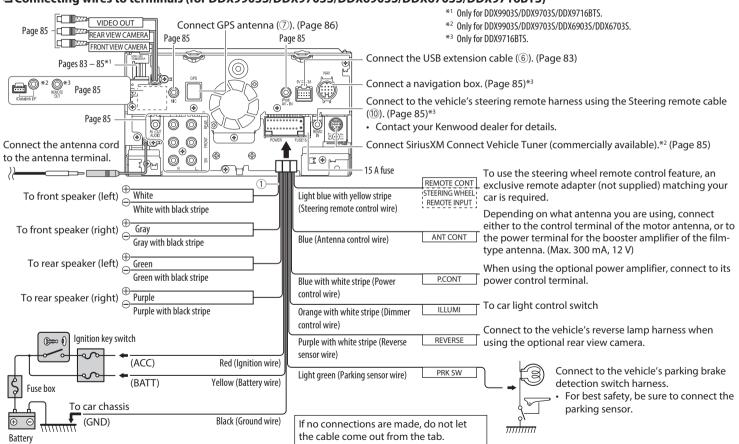
☐ Installing the trim plate (Only for DDX9903S/DDX9703S/DDX6903S/ DDX6703S/DDX9716BTS)

Attach the trim plate (2).



Connection

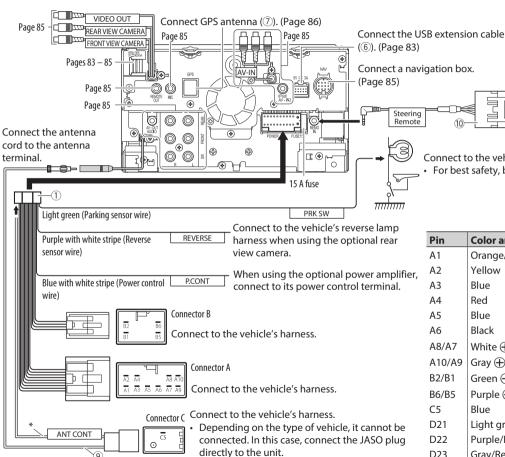
☐ Connecting wires to terminals (for DDX9903S/DDX9703S/DDX6903S/DDX6703S/DDX9716BTS)



☐ Connecting wires to terminals for Toyota Cars (for DDX916WSL)

* When using Antenna Control, connect the ANT CONT lead (blue) to A5 (blue) on the wiring harness.

If no connections are made, do not let the



Connect to the vehicle's steering remote harness.

cable come out from the tab.

 Depending on the type of vehicle, it cannot be connected.

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

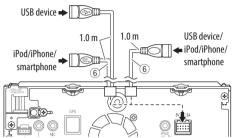
For best safety, be sure to connect the parking sensor.

	Pin	Color and functions of Conr	nector A, B, C and D
	A1	Orange/White	Dimmer
,	A2	Yellow	Battery
	А3	Blue	Antenna control
	A4	Red	Ignition (ACC)
	A5	Blue	Antenna control
	A6	Black	Ground connection
	A8/A7	White ⊕ / White/Black ⊖	Left speaker (front)
	A10/A9	Gray ⊕ / Gray/Black ⊖	Right speaker (front)
	B2/B1	Green ⊕ / Green/Black ⊖	Left speaker (rear)
	B6/B5	Purple ⊕ / Purple/Black ⊖	Right speaker (rear)
	C5	Blue	Antenna control
	D21	Light green/Red	Input 1
	D22	Purple/Red	Input 2
	D23	Gray/Red	Ground

☐ Connecting the USB extension cable

Connect the USB extension cable (6) to connect a USB device/iPod/iPhone/smartphone.

> For DDX9903S/ For DDX9703S/ DDX6903S/ DDX9716BTS/ DDX916WSI DDX6703S



☐ Connecting a USB device

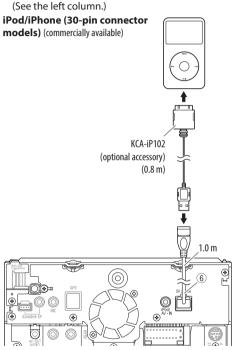
- Connect the USB extension cable (6) beforehand. (See above.)
- You can connect two USB devices to the ψ and iPod/iPhone terminals.

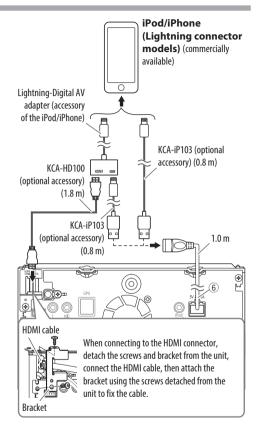


Use CA-U1EX to extend the cable if necessary. (Max 500 mA, 5V)

☐ Connecting an iPod/iPhone for "iPod"/"Mirroring"

• Connect the USB extension cable (6) beforehand. (See the left column.)

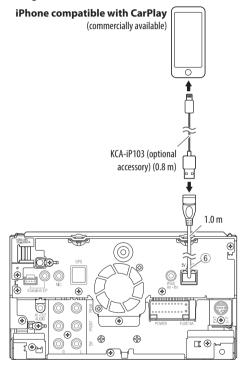




 The HDMI/MHL input terminal is equipped only for DDX9903S/DDX9703S/DDX9716BTS/DDX916WSL. For DDX6903S/DDX6703S, connect iPod/iPhone with KCA-iP103.

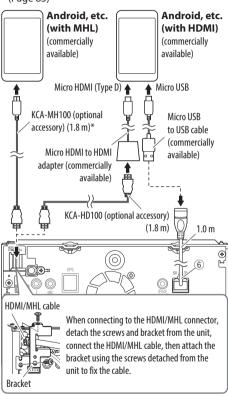
☐ Connecting an iPhone for "Apple CarPlay"

 Connect the USB extension cable (6) beforehand. (Page 83)



☐ Connecting a smartphone for "Mirroring"/"HDMI/MHL"

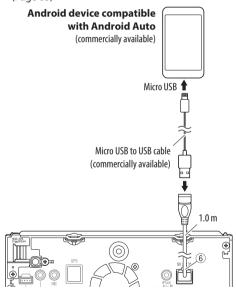
 Connect the USB extension cable (6) beforehand. (Page 83)



- The HDMI/MHL input terminal is equipped only for DDX9903S/DDX9703S/DDX9716BTS/DDX916WSL.
 For DDX6903S/DDX6703S, connect a smartphone with a Micro USB to USB cable.
- * Use a conversion adapter to connect to smartphones if necessary.

☐ Connecting an Android device for "Android Auto"

 Connect the USB extension cable (6) beforehand. (Page 83)

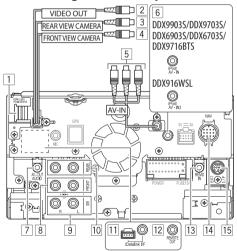


☐ Connecting the Wireless Display Adapter to use smartphone/iPod/ iPhone over a wireless connection

Wireless Display Adapter: KCA-WL100 (optional accessory)



☐ Connecting external components

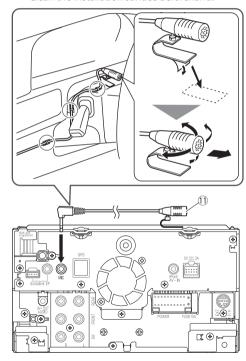


- 1 HDMI/MHL input*1
- 2 Video output (Yellow)
- 3 Rear view camera input (Yellow)
- 4 Front view camera input (Yellow)
- 5 Audio Video input (AV-IN1)*2
- 6 Audio Video input
 - For DDX9903S/DDX9703S/DDX6903S/ DDX6703S/DDX9716BTS: AV-IN
 - For DDX916WSL: AV-IN2
- AV-OUT/Audio output (ø3.5 mini jack) Resistance-free stereo type mini plug
- 8 Front preout*3
 - · Audio left output (White)
 - · Audio right output (Red)
- 9 Subwoofer preout (monaural output)*3
 - · Subwoofer left output (White)
 - Subwoofer right output (Red)
- 10 Rear preout*3
 - · Audio left output (White)
 - · Audio right output (Red)
- iDatalink input for connecting ADS adapter (commercially available)*5
- 12 TV tuner remote control output*4
- 13 Steering wheel remote controller input*4
 - Connect to the vehicle's steering remote harness using the Steering Remote cable (10).
 Contact your Kenwood dealer for details.
- 14 NAV I/F input*4
- 15 Expansion port for connecting SiriusXM Connect Vehicle Tuner (commercially available)*5
- $^{*\,\text{1}}$ Only for DDX9903S/DDX9703S/DDX9716BTS/DDX916WSL.
- *2 Only for DDX916WSL.
- *3 When connecting an external amplifier, connect its ground wire to the chassis of the car; otherwise the unit may be damaged.
- *4 Only for DDX9716BTS/DDX916WSL.
- *5 Only for DDX9903S/DDX9703S/DDX6903S/DDX6703S.

☐ Connecting microphone for Bluetooth

Connect the microphone (11) to the MIC terminal.

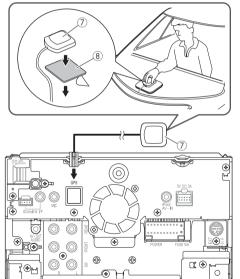
- To install the microphone, peel off the adhesive tape, fix it on the installation position, then adjust the direction of the microphone to face the driver. After installing, fix the microphone cable to the car with clamps (commercially available).
- Clean the installation surface beforehand.



☐ Connecting the GPS antenna

Connect the GPS antenna (⑦) to the GPS terminal.

- To install the GPS antenna, fix the metal plate
 (®) firmly on the dashboard, then place the GPS antenna (⑦) on the metal plate (®).
 - Clean the dashboard or other surface beforehand.
 - Install the GPS antenna (⑦) inside of the car, as horizontally as possible to allow easy reception of the GPS satellite signals.
 - You can bend the metal plate (®) to conform to a curved surface, if necessary.

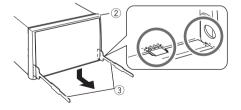


- Depending on the type of car, reception of the GPS satellite signals might not be possible with an internal installation.
- Install this GPS antenna in an area away from any antennas that are used with CB radios or satellite televisions.
- The GPS antenna should be installed at a position at least 30 cm (12 inches) from mobile phone or other transmitting antennas.
- The above types of communication may interfere with signals from the GPS satellite.
- Painting the GPS antenna with (metallic) paint may cause reduced performance.

Removing the unit (Only for DDX9903S/DDX9703S/DDX6903S/DDX6903S/DDX6703S/DDX9716BTS)

☐ Removing the trim plate

 Engage the catch pins on the extraction key (③) and remove the two locks on the lower part. Lower the frame and pull it forward.



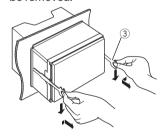
2 Remove from the upper two catches.



• The frame can be removed from the top side in the same manner.

☐ Removing the unit

- Remove the trim plate. (See the left column.)
- 2 Insert the two extraction keys (3), then pull them as illustrated so that the unit can be removed.



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

Maintenance

☐ Caution on cleaning the unit

Do not use any solvent (for example, thinner, benzine, etc.), detergent, or insecticide. This may damage the monitor or the unit.

Recommended cleaning method:

Gently wipe the panel with a soft, dry cloth.

☐ Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- · After starting the heater in the car.
- If it becomes very humid inside the car. Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

☐ How to handle discs

 When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.



- Always hold the disc by the edges. Do not touch its recording surface.
- When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).
 - Make sure to store discs in their cases after use.

☐ To keep discs clean

Dirty discs may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from the center to the edge.



 Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

☐ To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



• To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

More information

☐ File playback

Playing MPEG1/MPEG2 files

- This unit can play back MPEG1/MPEG2 files with the extension code <.mpg> or <.mpeg>.
- The stream format should conform to MPEG system/program stream.
 - The file format should be MP@ML (Main Profile at Main Level)/SP@ML (Simple Profile at Main Level)/MP@LL (Main Profile at Low Level).
- Audio streams should conform to MPEG1 Audio Layer-2 or Dolby Digital.

Playing MPEG4/H.264/WMV/MKV files

- This unit can play back files with the extension code <.mp4>, <.m4v>, <.avi>, <.wmv> or <.mkv>.
- This unit can only play back files which are less than 2 GB.
- The stream format should conform to MPEG system/program stream.

Playing MP3/WMA/WAV/AAC-LC/FLAC/Vorbis files

- This unit can play back files with the extension code <.mp3>, <.wma>, <.wav>, <.m4a>, <.flac> or <.ogg> (regardless of the letter case—upper/ lower).
- This unit can play back files that meet the conditions below:
 - Bit rate:

MP3: 8 kbps – 320 kbps WMA: 48 kbps – 192 kbps

AAC: For discs: 16 kbps – 320 kbps For USB: 32 kbps – 320 kbps

- Sampling frequency:

MP3: 8 kHz – 48 kHz

WMA: For discs: 32 kHz – 48 kHz

For USB: 8 kHz – 48 kHz

WAV: 32 kHz/44.1 kHz/48 kHz AAC: 16 kHz – 48 kHz FLAC/Vorbis: 8 kHz – 48 kHz

- This unit can show ID3 Tag Version 1.0/1.1/2.2/2.3/2.4 (for MP3).
- This unit can also show WMA/AAC/FLAC/Vorbis Comment Tag.
- This unit can play back files recorded in VBR (variable bit rate).
- Files recorded in VBR have a discrepancy in elapsed time indication.

- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded with lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
- WMA/AAC files copy-protected with DRM.
- AAC files encoded using any other application than iTunes.
- AAC files copy-protected with FairPlay (except those stored on an iPod).
- Files which have data such as AIFF, ATRAC3, etc.
- This unit can display jacket pictures that meet the conditions below:
 - Picture size: 32 x 32 to 1 232 x 672 (PNG: 800 x 480) resolution
 - Data size: less than 650 KB.File type: JPEG/PNG/BMP

☐ Disc playback Playable disc types

Disc type	Recording format, file type, etc.
 DVD DTS sound cannot be reproduced or emitted from this unit. 	DVD Video*1
DVD Recordable/ Rewritable (DVD-R/-RW*², +R/+RW*³) DVD Video: UDF bridge Audio/video files: ISO 9660 level 1, level 2, Romeo, Joliet	 DVD Video MPEG1/MPEG2/ MPEG4/H.264/ WMV/MKV MP3/WMA/AAC/ FLAC/Vorbis
Dual Disc	DVD side
CD/VCD	VCD (Video CD)Audio CD
CD Recordable/Rewritable (CD-R/-RW) • ISO 9660 level 1, level 2, Romeo, Joliet	VCD (Video CD)CD-DAMP3/WMA/AAC/ FLAC/Vorbis

^{*1} DVD Region code:

For DDX9903S/DDX9703S/DDX6903S/DDX6703S: 1
For DDX9716BTS/DDX916WSL: 4

If you insert a DVD Video disc of an incorrect Region Code, "Region Code Error" appears on the screen.

- *2 DVD-R recorded in multi-border format are also playable (except for dual layer discs). DVD-RW dual layer discs are not playable.
- *3 It is possible to play back finalized +R/+RW (Video format only) discs. "DVD" is selected as the disc type when a +R/+RW disc is loaded. +RW double layer discs are not playable.

Unplayable discs

- Unplayable disc types and formats are as follows:
- DVD-Audio/DVD-ROM/DVD-VR discs
- DivX/DVD+VR/DVD-RAM/JPEG/PNG/BMP recorded on DVD-R/RW or +R/+RW
- SVCD (Super Video CD), CD Text (CD-DA), CD-ROM, CD-I (CD-I Ready), DTS-CD
- MPEG1/MPEG2/MPEG4/WMV/MKV/JPEG/PNG/ BMP recorded on CD-R/RW
- · Discs that are not round.
- Discs with coloring on the recording surface or discs that are dirty.
- Recordable/Rewritable discs that have not been finalized.
- 3 inch discs. Attempting to insert these discs using an adapter may cause a malfunction.

DualDisc playback

The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard.
Therefore, the use of the Non-DVD side of a DualDisc on this product cannot be recommended.

Playing Recordable/Rewritable discs

- This unit can recognize a total of 64 770 files and 254 folders (a maximum of 255 files per folder).
- Use only "finalized" discs.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some discs or files may not be played back due to their characteristics or recording conditions.

☐ About data stored in the connected USB device/iPod/iPhone

 We bear no responsibility for any loss of data in iPod/iPhone and USB mass storage class devices while using this unit.

□ USB playback

Playable files on a USB device

- This unit can play the following types of files stored in a USB mass storage class device.
 - MPEG1/MPEG2/MPEG4/MP3/WMA/WAV/AAC/ FLAC/H.264/WMV/MKV
- This unit can recognize a maximum of 9 999 files and a maximum of 9 999 folders in a folder.
- Make sure all important data has been backed up to avoid losing the data.

Notes on using a USB device:

- This unit may not play back files in a USB device properly when using a USB extension cable.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- This unit may not recognize a memory card inserted into a USB card reader.
- When connecting with a USB cable, use a USB 2.0 cable.
- The maximum number of characters (when the characters are 1 byte):
 - Folder names: 128 characters
 - File names: 128 characters
- Avoid using the USB device if it might affect driving safety.
- Do not pull out and connect the USB device repeatedly while "Reading" is shown on the screen.

- Electrostatic shock at connecting a USB device may cause abnormal playback of the device. In this case, disconnect the USB device then reset this unit and the USB device.
- Operation and power supply may not work as intended for some USB devices.
- Do not leave a USB device in the car, or expose to direct sunlight or high temperatures to prevent deformation or damage to the device.

☐ Notes on playing iPod/iPhone

- iPod/iPhone that can be connected to this unit: Made for
- iPod touch (6th Generation)
- iPod touch (5th Generation)
- iPhone 6s Plus
- iPhone 6siPhone 6 Plus
- iPhone 6
- iPhone 5s
- iPhone 5c
- iPhone 5
- iPhone 4s

- For some iPod/iPhone models, the performance may be abnormal or unstable during operation. In this case, disconnect the iPod/iPhone device, then check its condition.
 - If the performance is not improved or slow, reset your iPod/iPhone.
- When you turn on this unit, the iPod/iPhone is charged through the unit.
- The text information may not be displayed correctly.

☐ Language codes (for DVD language selection)

AA	Afar	GL	Galician	MI	Maori	SO	Somali
AB	Abkhazian	GN	Guarani	MK	Macedonian	SQ	Albanian
AF	Afrikaans	GU	Gujarati	ML	Malayalam	SR	Serbian
AM	Ameharic	НА	Hausa	MN	Mongolian	SS	Siswati
AR	Arabic	HI	Hindi	МО	Moldavian	ST	Sesotho
AS	Assamese	HR	Croatian	MR	Marathi	SU	Sundanese
AY	Aymara	HU	Hungarian	MS	Malay (MAY)	SW	Swahili
AZ	Azerbaijani	HY	Armenian	MT	Maltese	TA	Tamil
ВА	Bashkir	IA	Interlingua	MY	Burmese	TE	Telugu
BE	Byelorussian	IE	Interlingue	NA	Nauru	TG	Tajik
BG	Bulgarian	IK	Inupiak	NE	Nepali	TH	Thai
ВН	Bihari	IN	Indonesian	NO	Norwegian	TI	Tigrinya
BI	Bislama	IS	Icelandic	OC	Occitan	TK	Turkmen
BN	Bengali, Bangla	IW	Hebrew	OM	(Afan) Oromo	TL	Tagalog
ВО	Tibetan	JA	Japanese	OR	Oriya	TN	Setswana
BR	Breton	JI	Yiddish	PA	Panjabi	TO	Tonga
CA	Catalan	JW	Javanese	PL	Polish	TR	Turkish
CO	Corsican	KA	Georgian	PS	Pashto, Pushto	TS	Tsonga
CS	Czech	KK	Kazakh	QU	Quechua	TT	Tatar
CY	Welsh	KL	Greenlandic	RM	Rhaeto-Romance	TW	Twi
DZ	Bhutani	KM	Cambodian	RN	Kirundi	UK	Ukrainian
EL	Greek	KN	Kannada	RO	Rumanian	UR	Urdu
EO	Esperanto	КО	Korean (KOR)	RW	Kinyarwanda	UZ	Uzbek
ET	Estonian	KS	Kashmiri	SA	Sanskrit	VI	Vietnamese
EU	Basque	KU	Kurdish	SD	Sindhi	VO	Volapuk
FA	Persian	KY	Kirghiz	SG	Sangho	WO	Wolof
FI	Finnish	LA	Latin	SH	Serbo-Croatian	XH	Xhosa
FJ	Fiji	LN	Lingala	SI	Singhalese	YO	Yoruba
FO	Faroese	LO	Laothian	SK	Slovak	ZU	Zulu
FY	Frisian	LT	Lithuanian	SL	Slovenian		
GA	Irish	LV	Latvian, Lettish	SM	Samoan	-	
GD	Scots Gaelic	MG	Malagasy	SN	Shona	_	

Error message list

If an error occurs while using the unit, a message appears. Take appropriate action according to the following message/remedy/cause list.

"No Signal"/"No Video Signal":

- Start playback on the external component connected to the AV-IN1 or AV-IN2 input terminal (DDX916WSL) or AV-IN input terminal (for DDX9903S/DDX9703S/DDX6903S/DDX6703S/ DDX9716BTS).
- Start playback on the smartphone connected to HDMI/MHL input terminal.
- · Check the cords and connections.
- · Signal input is too weak.

"There is an error in the speaker wiring. Please check the connections.":

 A speaker cord has shorted or it has come into contact with the car chassis. Wire or insulate the speaker cord as appropriate. (Page 81)

"Parking off":

• No playback picture is shown when the parking brake is not engaged.

"Unsupported Device":

- The USB power voltage is abnormal.
- Turn off and turn on the unit.
- · Connect another USB device.

"Cannot play this file.":

• Check whether the file is compatible with this unit. (Page 87)

"No Navigation":

• No navigation unit is connected.

"Connect failed.":

• The device is paired but the connection has failed. Connect the paired device. (Page 54)

"Please Wait...":

 The unit is preparing to use the Bluetooth function. If the message does not disappear, turn off and turn on the unit, then connect the device again.

"Voice Recognition is not available.":

• The connected mobile phone does not have a voice recognition system.

"No Contents":

 No phone book data is contained in the connected Bluetooth phone.

"SXM No Signal":

 Make sure the SiriusXM Satellite Radio antenna is mounted outside the vehicle. Move the vehicle to an area with a clear view of the sky.

"SXM Check Antenna":

- Check the SiriusXM Satellite Radio antenna connection, and make sure the antenna is firmly attached to the tuner.
- Check whether the SiriusXM Satellite Radio antenna cable is bent or broken. If it is damaged, replace the whole antenna unit.

"Check Tuner":

 Make sure the SiriusXM Connect Vehicle Tuner is connected to the unit.

"SXM Chan Unavailable" (appears on the screen for about 2 seconds, then returns to the previous channel):

 The selected channel is no longer available. Select another channel or continue listening to the previous channel.

"SXM Ch Unsubscribed" (appears on the screen for about 2 seconds, then returns to the previous channel):

 The selected channel is not part of your current subscription plan. Call 1-866-635-2349 to subscribe.

"Subscription Updated – Press Enter to Continue":

 Your subscription has been updated. Touch the appropriate button to continue.

"Channel Locked"

 The selected channel has been locked by the parental controls. Enter the unlock code when you are asked. (Page 45)

"Incorrect Lock Code"

 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.

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

 For operations with the external components, refer also to the instructions supplied with the adapters used for the connections (as well as the instructions supplied with the external components).

□General

No sound comes out of the speakers.

- Adjust the volume to the optimum level.
- · Check the cords and connections.

No picture is displayed on the screen.

• Turn on the screen. (Page 9)

The remote controller* does not work.

- Replace the battery.
- * For DDX9903S/DDX9703S/DDX6903S/DDX6703S: Purchase KNA-RCDV331 separately.

☐ Discs

Recordable/Rewritable discs cannot be played back.

- · Insert a finalized disc.
- Finalize the discs with the component which you used for recording.

Tracks on the Recordable/Rewritable discs cannot be skipped.

- · Insert a finalized disc.
- Finalize the discs with the component which you used for recording.

Playback does not start.

• The format of files is not supported by the unit.

No picture appears on the external monitor.

- Connect the video cord correctly.
- Select the correct input on the external monitor.
- Select the appropriate setting for [AV-OUT]. (Page 75)

MPEG1/MPEG2/MPEG4/WMV/H.264/MKV/MP3/ WMA/AAC/WAV/FLAC/Vorbis discs cannot be played back.

- Record the tracks using a compatible application on the appropriate discs. (Page 88)
- Add appropriate extension codes to the file names.

Tracks on the Recordable/Rewritable discs are not played back as you have intended them to play.

 Playback order may differ from the one played back using other players.

□ USB

"Reading" does not disappear from the screen.

• Turn the power off and on again.

While playing a track, sound is sometimes interrupted.

 The tracks are not properly copied into the USB device. Copy the tracks again, and try again.

Tracks are not played back as you have intended them to play.

• Playback order may differ from the one played back using other players.

□iPod/iPhone

No sound comes out of the speakers.

- · Disconnect the iPod/iPhone, then connect it again.
- · Select another source, then reselect "iPod".

The iPod/iPhone does not turn on or does not work.

- · Check the connecting cable and its connection.
- Update the firmware version.
- · Charge the battery.
- Reset the iPod/iPhone.

Sound is distorted.

 Deactivate the equalizer either on this unit or the iPod/iPhone.

A lot of noise is generated.

 Turn off (uncheck) "VoiceOver" on the iPod/ iPhone. For details, visit http://www.apple.com>.

No operations are available when playing back a track containing artwork.

• Operate the unit after the artwork has loaded.

The iPod/iPhone not compatible with CarPlay cannot be connected via Bluetooth.

 Select [ON] for [Automotive Mirroring] on the <AV> menu screen. (Page 26)

Videos cannot be played.

- · Check the connection.
 - For iPod/iPhone Lightning model (only for DDX9903S/DDX9703S/DDX9716BTS/ DDX916WSL): Connect with KCA-HD100 (optional accessory) and KCA-iP103 (optional accessory) through a Lightning-Digital AV adapter (accessory of the iPod/iPhone).

Other cables cannot be used.

No sound of videos comes out.

- · Check the connection.
 - For iPod/iPhone Lightning model (only for DDX9903S/DDX9703S/DDX9716BTS/ DDX916WSL): Connect with KCA-HD100 (optional accessory) and KCA-iP103 (optional accessory) through a Lightning-Digital AV adapter (accessory of the iPod/iPhone).

Other cables cannot be used.

□ Radio

AME automatic presetting does not work.

• Store stations manually. (Page 34)

Static noise while listening to the radio.

· Connect the antenna firmly.

□ AV-IN

No picture appears on the screen.

- Turn on the video component if it is not on.
- · Connect the video component correctly.

☐ HD Radio reception

AME automatic presetting does not work.

• Store stations manually. (Page 31)

Static noise while listening to the radio.

· Connect the antenna firmly.

Sound quality changes when receiving HD Radio stations.

• Fix the reception mode either to [**Digital**] or [**Analog**]. (Page 29)

No sound can be heard.

The HD Radio reception mode is not appropriate.
 Select the appropriate mode from [Digital],
 [Analog] or [Auto]. (Page 29)

☐ Android Auto*/Apple CarPlay/ Mirroring

Desired source ("Android Auto"/"Apple CarPlay"/ "Mirroring") is not displayed on the Home screen.

- Check whether the connected device is compatible with CarPlay or Android Auto.
- When iPhone compatible with CarPlay is connected, check the [Automotive Mirroring] setting. (Page 26)

Navigation does not work for "Apple CarPlay"/"Android Auto".

• Connect the GPS antenna firmly. (Page 86)

 * Android Auto is available only for DDX9903S/DDX9703S/ DDX9716BTS/DDX916WSL.

□Bluetooth

Phone sound quality is poor.

- Reduce the distance between the unit and the Bluetooth mobile phone.
- Move the car to a place where you can get a better signal reception.

The sound is interrupted or skipped while using a Bluetooth audio player.

- Reduce the distance between the unit and the Bluetooth audio player.
- Disconnect the device connected for Bluetooth phone.
- Turn off, then turn on the unit. (When the sound is not yet restored) connect the player again.

The connected audio player cannot be controlled.

 Check whether the connected audio player supports AVRCP (Audio/Video Remote Control Profile).

The Bluetooth device does not detect the unit.

• Search from the Bluetooth device again.

The unit does not pair with the Bluetooth device.

- For devices compatible with Bluetooth 2.1: Register the device using a PIN code. (Page 53)
- For devices compatible with Bluetooth 2.0:
 Enter the same PIN code for both the unit and target device. If the PIN code of the device is not indicated in its instructions, try "0000" or "1234."
- Turn off, then turn on the Bluetooth device.

Echo or noise occurs.

- · Adjust the microphone unit position.
- Adjust the echo volume or noise reduction volume. (Page 56)

The unit does not respond when you try to copy the phone book to the unit.

 You may have tried to copy the same entries (as stored) to the unit.

	S	oec	ific	atio	ns
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☐ Monitor section

Picture Size $(W \times H)$

DDX9903S/DDX9703S/DDX9716BTS/DDX916WSL:

6.95 inches (diagonal) wide 156.6 mm × 81.6 mm (6-3/16" × 3-3/16")

DDX6903S/DDX6703S:

6.2 inches (diagonal) wide 137.5 mm × 77.2 mm (5-7/16" × 3-1/16")

Display System	Transparent TN LCD panel
Drive System	TFT active matrix system
Number of Pixels	1 152 000 (800H × 480V × RGB)
Effective Pixels	99.99 %
Pixel Arrangemen	t
	RGB striped arrangement
Back Lighting	LED

□ DVD player section

D/A Converter	24/32 DIT
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 Respo	nse

requency Response

96 kHz Sampling: 20 Hz to 44 000 Hz 48 kHz Sampling: 20 Hz to 22 000 Hz 44.1 kHz Sampling: 20 Hz to 20 000 Hz

Total Harmonic Distortion 0.010 % (1 kHz)

Signal to Noise Ratio

98 dB (DVD-Video 96 kHz)

Dynamic Range 98 dB (DVD-Video 96 kHz)
Disc Format DVD-Video/VIDEO-CD/CD-DA

Sampling Frequency

44.1 kHz/48 kHz/96 kHz

Quantifying Bit Number

16/20/24 bit

□ USB interface section

USB Standard	USB 2.0 High Speed	
File System	FAT 16/32, NTFS	
Maximum Power Supply Current DDX9903S/DDX6903S/DDX916WSL:		
	DC 5 V === 1.5 A × 2	
DDX9703S/DDX6703S/DDX9716BTS:		
	DC 5 V === 1.5 A × 1	
D/A Converter	24/32 bit	
Audio Decoder	MP3/WMA/AAC/WAV/FLAC/	
	Vorbis	
Video Decoder	MPEG1/MPEG2/MPEG4/	

☐ HDMI interface section (Only for DDX9903S/DDX9703S/DDX9716BTS/ DDX916WSL)

WMV/H.264/MKV

Connector Type TYPE-A

☐ MHL interface section (Only for DDX9903S/DDX9703S/DDX9716BTS/ DDX916WSL)

Supported Version

MHL 2

Maximum Power Supply Current

DC 5 V === 900 mA

☐ Bluetooth section			
Technology	Bluetooth 3.0		
Frequency	2.402 GHz to 2.480 GHz		
Output Power	+4 dBm (MAX), 0 dBm (AVE), Power Class 2		
Maximum Commu	unication Range		
	Line of sight approx. 10 m (32.8 ft)		
Audio Codec	SBC/AAC		
Profile	HFP (V 1.6) (Hands Free Profile) A2DP (Advanced Audio Distribution Profile) AVRCP (V1.5) (Audio/Video Remote Control Profile) GAP (Generic Access Profile) HID (Human Interface Device Profile)* PBAP (Phone Book Access Profile) SPP (Serial Port Profile)		

^{*} Only for DDX9903S/DDX9703S/DDX9716BTS/DDX916WSL.

Graphics equa	alizer
BAND	13 Band
Frequency ((Hz) (BAND1-13)
	62.5/100/160/250/400/630/1k/
	1.6k/2.5k/4k/6.3k/10k/16k
Gain	-9/-8/-7/-6/-5/-4/-3/-2/
	-1/0/1/2/3/4/5/6/7/8/9 dB
2 Way X'Over	
HIGH PASS	FILTER frequency
	Through/30/40/50/60/70/80/90
	100/120/150/180/220/250
SLOPE	-6/-12/-18/-24 dB/Oct.
LOW PASS F	FILTER frequency
	30/40/50/60/70/80/90/100/120
	150/180/220/250/Through
SLOPE	-6/-12/-18/-24 dB/Oct.
Position	
Front/Rear/	Subwoofer Delay
	0 ft to 20.0 ft (0.03 ft step)
Gain	–8 dB to 0 dB

☐ FM radio section

Subwoofer Level -50 dB to +10 dB

Frequency Range DDX9903S/DDX9703S/DDX6903S/DDX6703S: 87.9 MHz to 107.9 MHz (200 kHz) DDX9716BTS/DDX916WSL 87.5 MHz to 108.0 MHz (50 kHz)

Usable Sensitivity (S/N: 30 dB) 9.3 dBf (0.8 μ V/75 Ω) Quieting Sensitivity (S/N: 50 dB) DDX9903S/DDX9703S/DDX6903S/DDX6703S: 10.2 dBf (1.13 μ V/75 Ω) DDX9716BTS/DDX916WSL 15.2 dBf (1.6 μ V/75 Ω) Frequency Response (±3.0 dB) Digital: 20 Hz to 20 kHz* Analog: 30 Hz to 15 kHz Signal to Noise Ratio Digital: 80 dB (STEREO)* Analog: 75 dB (MONO) Selectivity (±400 kHz) \geq 80 dB Stereo Separation 45 dB (1 kHz) ☐ AM radio section

Frequency Range (10 kHz)		
	530 kHz to 1 700 kHz	
Usable Sensitivity	28 dBμ	
Frequency Respor	nse (±3.0 dB)	
Digital:	40 Hz to 15 kHz*	
Signal to Noise Ra	tio	
Digital:	80 dB (STEREO)*	

* Only for DDX9903S/DDX9703S/DDX6903S/DDX6703S.

☐ Video section Color System of External Video Input NTSC/PAI External Video Input Level (mini jack) 1 Vp-p/75 Ω External Audio Max Input Level (mini jack) 2 V/25 kO Video Output Level (RCA jack) 1 Vp-p/75 Ω Audio Output Level (mini iack) 1.2 V/10 kΩ Analog RGB Input 0.7 Vp-p/75 Ω* * Only for DDX9716BTS/DDX916WSL. ☐ Audio section Maximum Power Output 50 W × 4 **Typical Power Output** Full Bandwidth Power (at less than 1 %THD) 22 W × 4 **Output Frequency Band** 20 Hz - 88 000 Hz Preout Level DDX9903S/DDX6903S/DDX916WSL: 5 V/10 kΩ DDX9703S/DDX6703S/DDX9716BTS: 4 V/10 kΩ Preout Impedance DDX9903S/DDX6903S/DDX916WSL: \leq 300 Ω DDX9703S/DDX6703S/DDX9716BTS: \leq 600 Ω

 4Ω to 8Ω

□ General

Operating Voltage 14.4 V (10.5 V to 16 V allowable)

Maximum Current Consumption 15 A

Installation Dimensions (W × H × D)
DDX9903S/DDX9703S/DDX9716BTS:

182 mm × 112 mm × 162 mm (7-3/16" × 4-7/16" × 6-7/16")

DDX6903S/DDX6703S:

182 mm ×112 mm ×153 mm (7-3/16" × 4-7/16" × 6")

DDX916WSL: $178 \text{ mm} \times 100 \text{ mm} \times 159 \text{ mm}$

(7" × 3-15/16" × 6-5/16") 206 mm × 104 mm × 159 mm (8-1/8" × 4-1/8" × 6-5/16") (including the sub panel part)

Operational Temperature Range -10°C to +60°C

Weight

DDX9903S/DDX9703S/DDX9716BTS:

2.3 kg (5.1 lbs)

DDX6903S/DDX6703S:

2.0 kg (4.4 lbs)

DDX916WSL: 2.4 kg (5.3 lbs)

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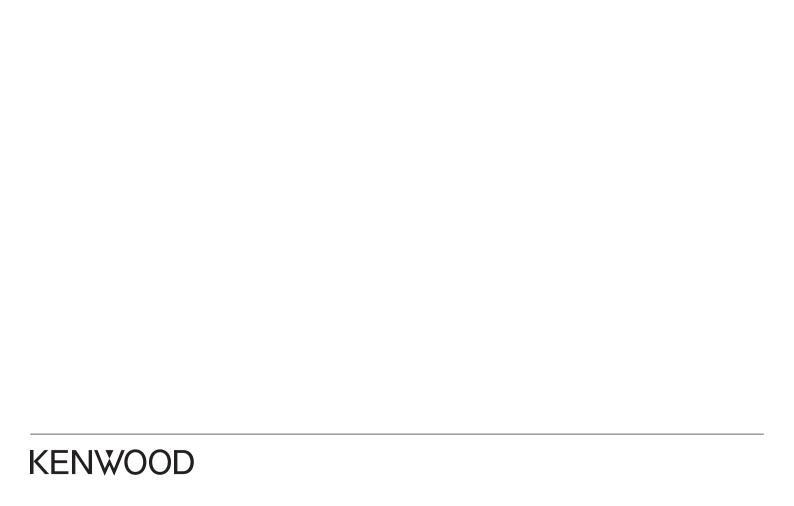
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Spotify

With Spotify, your music is everywhere. Working out, partying or relaxing, the right music is always at your fingertips. There are millions of songs on Spotify—from old favorites to the latest hits. Just choose the music you love, or let Spotify surprise you.

You can stream Spotify from connected iPod touch/iPhone or Android devices.

 Install the latest version of the Spotify application on your iPod touch/iPhone/Android and create an account.

Preparation

- Connect the device.
 - For Android: Pair the Android device through Bluetooth.
 - For iPod touch/iPhone: Connect iPod touch/ iPhone.
- 2 Select the device to use and connection method on the <APP Connection select> of the <APP/iPod SETUP> screen. (Page 63)
- **3** Select **"Spotify"** as the source. (Page 13) The Spotify application is started.

Playback operations

You can operate Spotify using the remote controller. Only playing, pausing, and skipping are available.

☐ Indications and buttons on the source control screen



Playback information

- 1 Picture data
- 2 Thumbs up/ down or Playback mode (see below.)
- 3 Track information
 - Touching the text scrolls if not all of the text is shown.

Operation buttons

 $[\equiv]$ Displays the list selection screen.

[+] Saves the current track/artist to **<Your**

Music>.

[III] Thumbs down to the current track and

skips to the next track.

Activates/deactivates the repeat

playback mode.

Activates/deactivates the shuffle

playback mode.

[.....] Displays the **<Graphic Equalizer>**

screen. (Page 66)

☐ Creating your station (Start Radio)

1



- 2 Enter a track/artist/playlist, then select the desired track. The playback of your station starts with the selected track.

☐ Selecting a track

1 Display the list selection screen.



2 Select the list type (<Your Music>/<Browse>/<Radio>) (1), then select a desired item (2).





- Press [the large of the large o
- Press [†] to return to the upper layer.

Requirements for 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.)

- Connect iPod touch/iPhone to this unit with a cable or via Bluetooth.
 - When connecting with a cable: Use KCA-iP103 (optional accessory) or a KCA-iP102 (optional accessory).

Android™

- Visit Google Play™ and search for "Spotify" to install.
- Bluetooth must be built in and the following profiles must be supported.
 - SPP (Serial Port Profile)
 - A2DP (Advanced Audio Distribution Profile)

NOTE

- Ensure you are logged in to your smartphone application. If you do not have a 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 using LTE, 3G, EDGE, or WiFi.
- Spotify and Spotify logos are trademarks of the Spotify Group.



Pandora®

You can stream Pandora from iPod touch/iPhone, Android or BlackBerry devices.

 Install the latest version of the Pandora application on your iPod touch/iPhone/Android/ BlackBerry.

Preparation

- Connect the device.
 - For Android/BlackBerry: Pair the Android/ BlackBerry device through Bluetooth.
 - For iPod touch/iPhone: Connect iPod touch/ iPhone
- 2 Select the device to use and connection method on the <APP Connection select> of the <APP/iPod SETUP> screen. (Page 63)
- 3 Select "PANDORA" as the source. (Page 13) The Pandora application is started.

Playback operations

You can operate Pandora using the remote controller. Only playing, pausing, and skipping are available.

☐ Indications and buttons on the source control screen



Playback information

- 1 Playing time
- 2 Picture data
- 3 Track information
 - Touching the text scrolls it if not all of the text is shown.

Operation buttons

r •- 1

r := 1	Displays the list selection screen.
[🕈]	Thumbs down to the current track and skips to the next track.
[•]	Registers the current track as a favorite.
[▶]*	Starts playback.
[[]*	Pauses playback.

Displays the list selection serson

Skips the current track.Not available when the Pandora skip reaches its limit.

Bookmarks the current track.

[+] Creates a new station.

Displays the **Graphic Equalizer**> screen. (Page 66)

During playback, [■] is displayed, and when playback is paused,
 [>] is displayed.

Pandora®

☐ Selecting a station from the list

1 Display the station list screen.



2 Select a station from the list.



Plays all the songs in the registered stations randomly.

Sorts the list in reverse chronological order.

Sorts the list in alphabetical order.

- · Scroll the page to show more items.
- The x indicator appears on the left of the item when Shuffle is activated. (All songs on the registered stations are played randomly.)
- The <u>left</u> indicator appears on the left of the item when the station is shared.

☐ Creates a new station

1 Display the station list screen.



2 Select the type.



[Create stationCreates a new station basedfrom artist]on an artist being played.[Create stationCreates a new station basedfrom track]on a song being played.[Create stationDisplays the genre list screen.from genre](see below.)

Genre list screen

1



2 Select a genre, then a station.



- · Scroll the page to show more items.
- The selected station is added to the Station List.

Pandora®

Requirements for 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.)
- Connect iPod touch/iPhone to this unit with a cable or via Bluetooth.
 - When connecting with a cable: Use KCA-iP103 (optional accessory) or a KCA-iP102 (optional accessory).

Android™

- Visit Google play and search for "Pandora" to install.
- Bluetooth must be built in and the following profiles must be supported.
 - SPP (Serial Port Profile)
 - A2DP (Advanced Audio Distribution Profile)

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

- Ensure you are logged in to your smartphone application. If you do not have a Pandora account, you can create one for free from your smartphone or at www.pandora.com.
- 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.
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