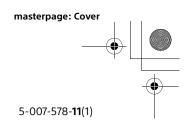


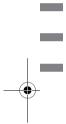
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AV RECEIVER

Operating Instructions	GB
Mode d'emploi	FR
Manual de instrucciones	ES



Owner's Record

The model and serial numbers are located on the bottom of the unit.

Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. XAV-AX8000

Serial No.

To cancel the demonstration (DEMO) display, see page 00. For the connection/installation, see page 00.

Pour annuler l'affichage de démonstration (DEMO),

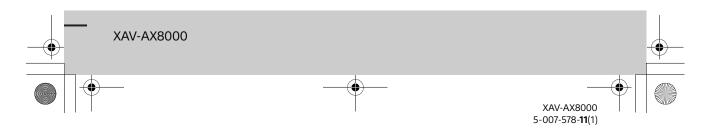
reportez-vous à la page 00.

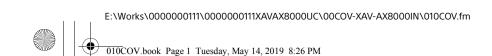
Pour le raccordement/l'installation, reportez-vous à la page 00. Para cancelar la pantalla de demostración (DEMO), consulte

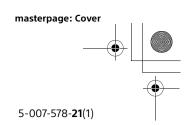
la página 00.

Para la conexión/instalación, consulte la página 00.











AV RECEIVER

Operating Instructions

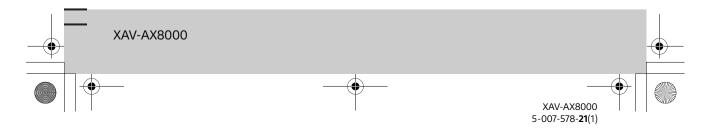
GB

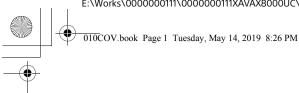


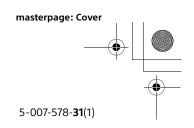
To cancel the demonstration (Demo) display, see page 00. To switch the FM/AM tuning step, see page 00.

For the connection/installation, see page 00.





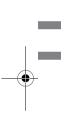


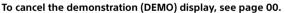


SONY

AV RECEIVER

Operating Instructions	GB
Mode d'emploi	FR
Manual de instrucciones	ES





To switch the FM/AM tuning step, see page 00.

For the connection/installation, see page 00.

Pour annuler l'affichage de démonstration (DEMO), reportez-vous à la page 00.

Pour commuter l'intervalle de syntonisation FM/AM, reportezvous à la page 00.

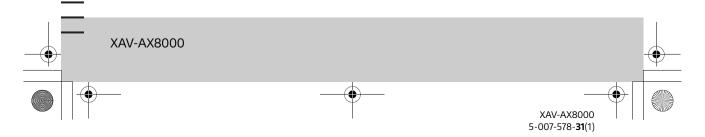
Pour le raccordement/l'installation, reportez-vous à la page 00.

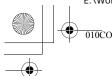
Para cancelar la pantalla de demostración (DEMO), consulte la página 00.

Para cambiar el paso de sintonización de FM/AM, consulte la página 00.

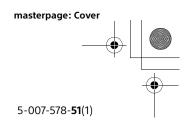
Para la conexión/instalación, consulte la página 00.







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AV RECEIVER

Operating Instructions	GB
Bedienungsanleitung	DE
Mode d'emploi	FR
Istruzioni per l'uso	IT
Manual de instrucciones	ES



Zum Deaktivieren der Demo-Anzeige (DEMO) schlagen Sie bitte auf Seite 00 nach.

Informationen zum Anschluss und zur Installation finden Sie auf Seite 00.

Pour annuler la démonstration (DEMO), reportez-vous à la page 00.

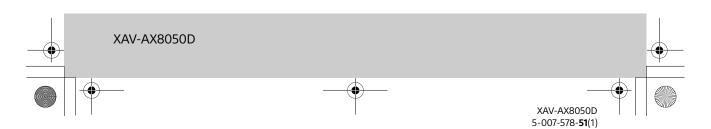
Pour le raccordement/l'installation, reportez-vous à la page 00.

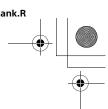
Per annullare la dimostrazione (DEMO), vedere pagina 00. Per l'installazione e i collegamenti, consultare pagina 00.

Para cancelar la pantalla de demostración (DEMO), consulte la página 00.

Para la conexión/instalación, consulte la página 00.

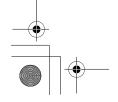




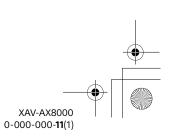




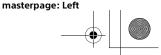








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Warning

For safety, be sure to install this unit in the dashboard of the car as the rear side of the unit becomes hot during use. For details, see "Connection/Installation"

(page 32).

Made in Thailand

The nameplate indicating operating voltage, etc., is located on the bottom of the chassis.

The validity of the CE marking is restricted to only those countries where it is legally enforced, mainly in the countries EEA (European Economic Area) and Switzerland.

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

FOR THE CUSTOMERS IN THE USA. NOT APPLICABLE IN CANADA, INCLUDING IN THE PROVINCE OF QUEBEC.

POUR LES CLIENTS AUX ÉTATS-UNIS. NON APPLICABLE AU CANADA, Y COMPRIS LA PROVINCE DE OUÉBEC.

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 generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. 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.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

This device complies with part 15 of FCC Rules and Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference,

- and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the ISED radio frequency (RF) Exposure rules as this equipment has very low levels of RF energy.

If you have any questions about this product:

Visit: https://www.sony.com/electronics/support Contact: Sony Customer Information Service Center at 1-800-222-7669

Write: Sony Customer Information Service Center 12451 Gateway Blvd., Fort Myers, FL 33913 Supplier's Declaration of Conformity

Trade Name: SONY Model: XAV-AX8000

Responsible Party: Sony Electronics Inc.

Address: 16535 Via Esprillo, San Diego, CA 92127 U.S.A.

Telephone Number: 858-942-2230

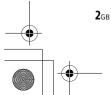
This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

For the State of California, USA only

Perchlorate Material – special handling may apply,

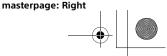
www.dtsc.ca.gov/hazardouswaste/perchlorate







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Disposal of waste batteries and electrical and electronic equipment (applicable in the European Union and other countries with separate collection systems)



Hereby, Sony Corporation declares that this equipment is in compliance with Directive 2014/53/

The full text of the EU declaration of conformity is available at the following internet address: http://www.compliance.sonv.de/

Notice for customers: the following information is only applicable to equipment sold in countries applying EU Directives

This product has been manufactured by or on behalf of Sony Corporation.

EU Importer: Sony Europe B.V.

Inquiries to the EU Importer or related to product compliance in Europe should be sent to the manufacturer's authorized representative, Sony Belgium, bijkantoor van Sony Europe B.V., Da Vincilaan 7-D1, 1930 Zaventem, Belgium.



Disposal of waste batteries and electrical and electronic equipment (applicable in the European Union and other countries with separate collection systems)

This symbol on the product, the battery or on the packaging indicates that the product and the battery shall not be treated as household waste. On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbol for lead (Pb) is added if the battery contains more than 0.004% lead.

By ensuring that these products and batteries are disposed of correctly, you will help to prevent potentially negative consequences for the environment and human health which could be caused by inappropriate waste handling. The recycling of the materials will help to conserve natural resources.

In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only.

To ensure that the battery and the electrical and electronic equipment will be treated properly, hand over these products at end-of-life to the appropriate collection point for the recycling of electrical and electronic equipment.

For all other batteries, please view the section on how to remove the battery from the product safely.

Hand the battery over to the appropriate collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product or battery.

\bigwedge

WARNING: Do not ingest battery, Chemical Burn Hazard.

The remote commander contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

Note on the lithium battery

Do not expose the battery to excessive heat such as direct sunlight, fire or the like.

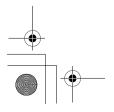
Warning if your car's ignition has no ACC position

Do not install this unit in a car that has no ACC position. The display of the unit does not turn off even after turning the ignition off, and this causes battery drain.

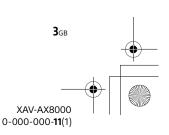
Disclaimer regarding services offered by third parties

Services offered by third parties may be changed, suspended, or terminated without prior notice. Sony does not bear any responsibility in these sorts of situations

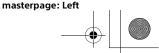








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Caution

IN NO EVENT SHALL SONY BE LIABLE FOR ANY INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR OTHER DAMAGES INCLUDING, WITHOUT LIMITATION, LOSS OF PROFITS, LOSS OF REVENUE, LOSS OF DATA, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, DOWNTIME, AND PURCHASER'S TIME RELATED TO OR ARISING OUT OF THE USE OF THIS PRODUCT, ITS HARDWARE AND/OR ITS SOFTWARE.

Dear customer, this product includes a radio transmitter.

According to UNECE Regulation no. 10, a vehicle manufacturers may impose specific conditions for installation of radio transmitters into vehicles. Please check your vehicle operation manual or contact the manufacturer of your vehicle or your vehicle dealer, before you install this product into your vehicle.

Emergency calls

This BLUETOOTH car handsfree and the electronic device connected to the handsfree operate using radio signals, cellular, and landline networks as well as user-programmed function, which cannot guarantee connection under all conditions. Therefore do not rely solely upon any electronic device for essential communications (such as medical emergencies).

On BLUETOOTH communication

- Microwaves emitting from a BLUETOOTH device may affect the operation of electronic medical devices. Turn off this unit and other BLUETOOTH devices in the following locations, as it may cause an accident.
- where inflammable gas is present, in a hospital, train, airplane, or petrol station
- near automatic doors or a fire alarm
- This unit supports security capabilities that comply with the BLUETOOTH standard to provide a secure connection when the BLUETOOTH wireless technology is used, but security may not be enough depending on the setting. Be careful when communicating using BLUETOOTH wireless technology.
- We do not take any responsibility for the leakage of information during BLUETOOTH communication.

If you have any questions or problems concerning your unit that are not covered in this manual, consult your nearest Sony dealer.

Model classifications

The functions described in this manual differ according to the classification of the model. Models are classified below.

For XAV-AX8000:

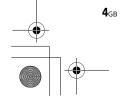
Area/region	Classified as
United States, Canada	US/Canada models
Asia Pacific	Asia Pacific models
Australia, New Zealand	Oceania models
Middle East (excluding Israel)	Middle East (excluding Israel) models
India	India models

For XAV-AX8050D:

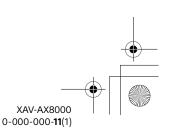
Area/region	Classified as
Europe, Israel	Europe/Israel models











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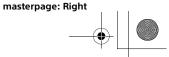




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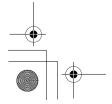
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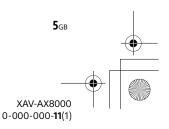
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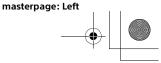








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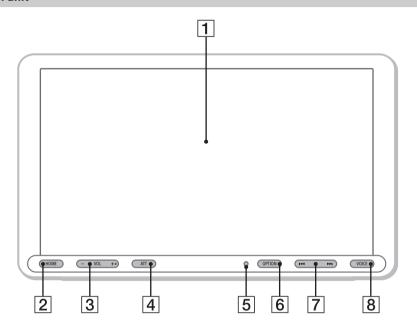




Getting Started

Guide to Parts and Controls

Main unit



The VOL (volume) + button has a tactile dot.

1 Display/touch panel

2 HOME

Opens the HOME menu.

Press and hold to turn the unit to standby mode (USB charging is still available). To resume, press any button.

3 VOL (volume) +/-

4 ATT (attenuate)

Attenuates the sound.

To cancel, press and hold again, or press VOL +.

■ MONITOR OFF

Press and hold to turn off the monitor. To turn back on, touch any part of the display.

5 Receptor for the remote commander

6 OPTION

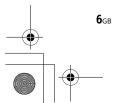
Opens the OPTION screen (page 8).

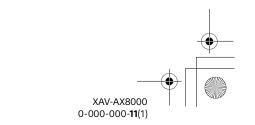
7 I◄◄/►►I (previous/next)

Moves to the previous/next item. Press and hold to fast-reverse/fast-forward.

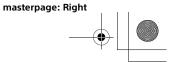
8 VOICE

Activates the voice command function for Apple CarPlay and Android Auto.





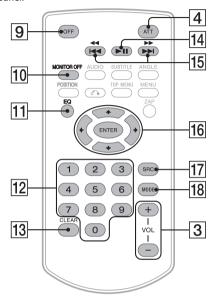
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RM-X170 remote commander

The remote commander can be used to operate the audio controls. For menu operations, use the touch panel.



Note

The white buttons in the illustration above are not supported.

9 OFF

Turns the source off.

10 MONITOR OFF

Turns off the monitor. To turn back on, press again.

11 EQ (equalizer)

Selects an equalizer curve.

12 Number buttons (0 to 9)

13 CLEAR

14 ►II (play/pause)

15 I◀◀ /▶►I (previous/next)

√
✓
✓/
✓
✓
(fast-reverse/fast-forward)

16 **←/**∱/**↓**/→

Functions differently depending on the selected source.

- Radio: select a preset station or tune into a station automatically.
- SiriusXM: select a preset channel or move to the previous/next channel (US/Canada models only).
- USB: select a folder or move to the previous/ next file.

ENTER

Enters the selected item.

17 SRC (source)

Changes the source. Each time you press this button, a selectable source is displayed in a popup on the current display.

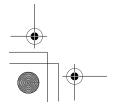
18 MODE

Selects the radio band.

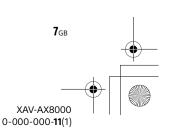
Remove the insulation film before use.





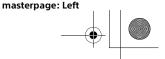








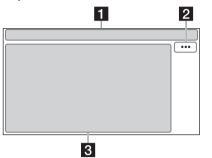
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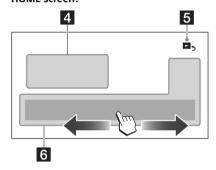


Screen displays

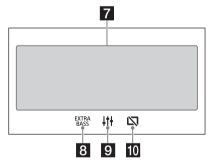
Playback screen:



HOME screen:



OPTION screen:



1 Status indication

■ ATT	Lights up when the sound is attenuated.
SXM.I	Indicates the signal strength status of the connected SiriusXM Connect Vehicle Tuner (IIS/Canada models only)

- Lights up when AF (Alternative Frequencies) is available (Europe/Israel models only).
- Lights up when the current traffic information (TA: Traffic Announcement) is available (Europe/Israel models only).
- Lights up when a DAB announcement is available (Europe/Israel models only).
- DAB II Indicates the signal strength status of the DAB tuner (Europe/Israel models only).
- Lights up when the audio device is playable by enabling the A2DP (Advanced Audio Distribution Profile).
- Lights up when handsfree calling is available by enabling the HFP (Handsfree Profile).
- Yall Indicates the signal strength status of the connected mobile phone.
- Indicates the remaining battery status of the connected mobile phone.
- Lights up when the BLUETOOTH signal is on. Flashes when the connection is in progress.

2 ··· (source option)

Opens the source option menu. The available items differ depending on the source.

3 Application specific area

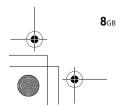
Displays playback controls/indications or show the unit's status. Displayed items differ depending on the source.

4 Clock

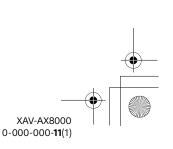
Displays the time which are set on the Data/ Time setting (page 19).

5 (return to the playback screen)

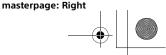
Switches from the HOME screen to the playback screen.







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•

6 Sources and Settings select keys

Changes the source or make various settings. Flick to select the setting icon and other icons. Touch the source icon you want to select.

۵	Android Auto	©	Apple CarPlay	6	Radio
(((caxm (a4ux)))	SXM*1	⇔	BT Audio	4	Phone
8	USB	0	Rear Camera	4	Settings
٥	WebLink*2				

- *1 US/Canada models only
- *2 India models only
- 7 Sources select keys

Changes the source.

8 EXTRA (EXTRA BASS)
Changes the EXTRA BASS setting (page 20).

9 Lt+ (EQ10/Subwoofer)

Changes the EQ10/Subwoofer setting (page 20).

10 🖾 (monitor off)

Turns off the monitor. When the monitor is turned off, touch any part of the display to turn it back on.

Performing Initial Settings

You need to perform initial settings before operating the unit for the first time, after replacing the car battery, or changing connections. If the initial settings screen does not appear when you turn on the unit, perform the factory reset (page 20) to initialize the unit.

- 1 Touch [Language], then set the display language.
- **2** Touch [Demo] repeatedly to select [OFF] to disable the demonstration mode.
- **3** Touch [Set Date/Time], then set the date and time.
- 4 After setting the date and time, touch [OK]. For Asia Pacific, Oceania, Middle East (excluding Israel) and India models, proceed to step 5. For other models, skip to step 6.
- 5 Touch [Tuning Steps], then set the FM/AM tuning step to [9kHz/50kHz] (Asia Pacific, Oceania, Middle East (excluding Israel) and India models only).
- 6 To return to the previous display, touch 5, then touch [OK].

The startup caution appears.

7 Read through the startup caution, then if you accept all conditions, touch [Close]. The setting is complete. This setting can be further configured in the setting menu (page 19).

Preparing a Bluetooth® Device

You can enjoy music or perform handsfree calling depending on the BLUETOOTH compatible device such as smartphones, mobile phones, and audio devices (hereafter "BLUETOOTH device" if not otherwise specified). For details on connecting, refer to the operating instructions supplied with the device

Before connecting the device, turn down the volume of this unit; otherwise, a loud sound may result

Pairing and connecting with a BLUETOOTH device

When connecting a BLUETOOTH device for the first time, mutual registration (called "pairing") is required. Pairing enables this unit and other devices to recognize each other.



- Place the BLUETOOTH device within 1 m (3 ft) of this unit.
- 2 Press HOME, then touch [Settings].
- **3** Touch [Bluetooth].
- **4** Touch [Bluetooth Connection], then touch [ON].

The BLUETOOTH signal is turned on and ② lights up on the status bar of the unit.

- **5** Touch [Pairing].
 - § flashes while the unit is in pairing standby
- 6 Perform pairing on the BLUETOOTH device so it detects this unit.
- 7 Select your model name shown in the display of the BLUETOOTH device.

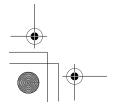
Repeat from step 5 if your model name does not appear.

If the connection confirmation display appears, operate the BLUETOOTH device to approve the connection, then touch [OK] on the unit and/or the BLUETOOTH device.

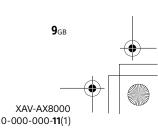
8 If passkey* input is required on the BLUETOOTH device, input [0000].

When pairing is made, 8 stays lit.

* Passkey may be called "passcode," "PIN code," "PIN number," "password," etc., depending on the BLUETOOTH device.

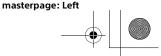








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9 Select this unit on the BLUETOOTH device to establish the BLUETOOTH connection. or p lights up when the connection is made.

Notes

- The unit can only be connected with one BLUETOOTH device at a time.
- To disconnect the BLUETOOTH connection, turn the connection off from either the unit or the BLUETOOTH
- · BLUETOOTH pairing is not possible while Apple CarPlay or Android Auto is running.

Connecting with a paired BLUETOOTH device

To use a paired device, connection with this unit is required. Some paired devices will connect automatically.



- 1 Press HOME, then touch [Settings].
- **2** Touch [Bluetooth].
- 3 Touch [Bluetooth Connection], then touch Make sure that 8 lights up on the status bar of
- 4 Activate the BLUETOOTH function on the BLUETOOTH device.
- 5 Operate the BLUETOOTH device to connect to this unit.

or p lights up on the status bar.

To connect the last-connected device from this unit

When the ignition is turned to on with the BLUETOOTH signal activated, this unit searches for the last-connected BLUETOOTH device, and connection is made automatically.

Note

While streaming BLUETOOTH audio, you cannot connect from this unit to the mobile phone. Connect from the mobile phone to this unit instead.

To capture your voice during handsfree

You need to install the microphone (page 39).

Connecting Rear View Camera

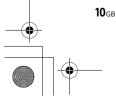
By connecting the optional rear view camera to the CAMERA IN terminal, you can display the picture from the rear view camera. For details, see "Connection/Installation" (page 32).

To display the picture from the rear view

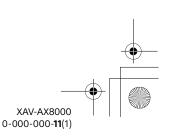
Press HOME, then touch [Rear Camera].



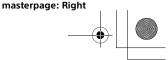








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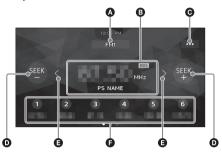




Listening to the Radio

Press HOME, then touch [Radio].

Reception controls/indications



Current band

Change the band (FM1, FM2, FM3, AM1 or AM2).

© Current frequency, program service name*, RDS (Radio Data System) indication*

- * Only available during RDS reception.
- ••• (tuner option)
 Open the tuner option menu.
- SEEK-/SEEK+

 Tune in automatically
- Tune in automatically.
- Tune in manually.
 Touch and hold to continuously skip frequencies.

Preset numbers

Select a preset station. Swipe right/left to show the other preset stations.

Touch and hold to store the current frequency in that preset.

Tuning

- 1 Select the desired band (FM1, FM2, FM3, AM1 or AM2).
- 2 Perform tuning.

To tune automatically

Touch SEEK-/SEEK+.

Scanning stops when the unit receives a station.

To tune manually

Touch and hold $\langle \rangle$ to locate the approximate frequency, then touch $\langle \rangle$ repeatedly to finely adjust to the desired frequency.

Storing manually

 While receiving the station that you want to store, touch and hold the desired preset number

Receiving stored stations

Select the band, then touch the desired preset number.

Using Tuner Option Functions

The following functions are available by touching

BTM (Best Tuning Memory)

Stores stations in order of frequency on the preset numbers. 18 stations for FM and 12 stations for AM can be stored as preset stations.

AF (Europe/Israel models only)

Selects [ON] to continuously retune the station to the strongest signal in a network.

TA (Europe/Israel models only)

Selects [ON] to receive current traffic information or traffic programs (TP) if available.

Regional (Europe/Israel models only)

Selects [ON] to stay with the station you are receiving while the AF function is set to on. If you leave this regional program's reception area, select [OFF]. This function does not work in the UK and some other areas.

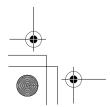
PTY

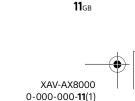
Selects a program type from the PTY list to search for a station broadcasting the selected program type.

(Only available during FM reception.)

To receive emergency announcements (Europe/Israel models only)

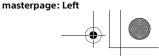
With the AF or TA function on, emergency announcements will automatically interrupt the currently selected source.



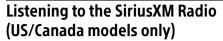




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Press HOME, then touch [SXM].

Activating your SiriusXM Subscription

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 Connect Vehicle Tuner and Subscription are required. For more information, visit www.siriusxm.com

After installing your SiriusXM Connect Vehicle Tuner and antenna (aerial), press HOME, then touch [SXM]. You should be able to hear the SiriusXM preview channel on Channel 1. After verifying that you can hear the preview channel, select Channel 0 to find the Radio ID of your tuner. In addition, the Radio ID is located on the bottom of the SiriusXM Connect Vehicle Tuner and its packaging. You will need this number to activate your subscription. Write the number down for reference.

Note

The SiriusXM Radio ID does not include the letters I, O, S

To display the SiriusXM Radio ID

- 1 Press HOME, then touch [SXM].
- 2 Touch •••, then select [Channel Direct Select].
- 3 Input [000], then touch [OK].

In the USA, you can activate online or by calling SiriusXM Listener Care:

- Online: Visit www.siriusxm.com/activatenow
- Phone: Call 1-866-635-2349

In Canada, you can activate online or by calling SiriusXM Listener Care:

- Online: Visit www.siriusxm.ca/activatexm
- Phone: Call 1-877-438-9677

As part of the activation process, the SiriusXM satellites will send an activation message to your tuner. When your radio detects that the tuner has received the activation message, your radio will display: [Subscription Updated Press Enter to Continue]. Once subscribed, you can tune to channels in your subscription plan.

Notes

- The activation process usually takes 10 to 15 minutes, but may take up to an hour.
- Your radio will need to be turned on and receiving the SiriusXM signal to receive the activation message.

Tuning channels for SiriusXM

Reception controls/indications





Open the channel list or category list.

- G CH- (previous channel) /CH+ (next channel) Select the channel.
- Channel number, channel name
- Artist name, song title
- (information)
 - Switch the channel information.
- (SXM option) Open the SXM option menu.

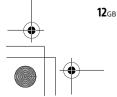
Preset numbers

Select a preset channel. Swipe right/left to show the other preset channels. Touch and hold to store the current channel in that preset.

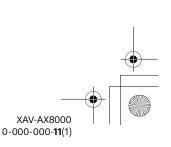
Category name, content information

To tune the channel by inputting its channel number

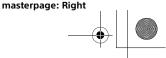
- 1 Touch the area (channel number and channel name).
 - Alternatively, press ENTER on the remote commander.
- 2 Input the channel number, then touch [OK]. Alternatively, input with the number buttons (0 to 9) and press ENTER on the remote commander.







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To tune the channel from the channel list or category list

- 1 Touch :≣.
 - The category list appears.
- **2** Touch the desired category.

 To tune from the channel list, touch [All Channels].
- 3 Touch the desired channel.

To set a parental control

The parental control feature allows you to limit access to SiriusXM channels with mature content. When enabled, the parental control feature requires you to enter a passcode to tune to the locked channels. Information on setting up the passcode and locking channels can be found below.

- **1** Touch •••, then touch [Parental Control]. The passcode input display appears.
- 2 Enter your 4-digit passcode by touching the number keys, then touch [OK].

 The passcode confirmation display appears.
- **3** Enter the 4-digit passcode again, then touch [OK]. The parental control is applied, and the channels are locked.

To unlock the channels/To lock the channels again

- **1** Touch •••, then touch [Parental Control]. The passcode input display appears.
- **2** Enter your 4-digit passcode by touching the number keys, then touch [OK].

To change the passcode

- 1 Touch •••, touch [Pass Code Change], then enter your current passcode.
- 2 Enter your new passcode.

Using SXM Option Functions (US/ Canada models only)

The following functions are available by touching

Channel Direct Select

Tunes the desired channel by inputting its channel number directly.

Parental Control

Sets the parental lock to on or off, and edit the passcode.

Pass Code Change

Changes the passcode for the Parental Control feature

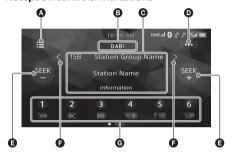
Listening to the DAB/DAB+ Radio (Europe/Israel models only)

Press HOME then touch [DAB+].

Tips

- Set [Antenna Power] to [ON] (default) or [OFF] depending on the type of DAB antenna (aerial) (not supplied) (page 00).
- When [DAB+] is selected for the first time after performing the factory reset, the auto tune starts automatically. Allow the auto tune to finish. (If interrupted, the auto tune will start again the next time you select [DAB+].) If no DAB station is stored by the auto tune, tune by touching [Auto Tune] of : (list).

Reception controls/indications



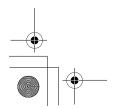
- ♠ \(\exist \) (list)
 Open the station list.
- Current band Change the band (DAB1, DAB2 or DAB3).
- **O** Station group name, station name
- ••• (DAB Options)
 Open the DAB Options menu.
- SEEK-/SEEK+
 Search for stations
- Search for stations.
- Search for station groups.

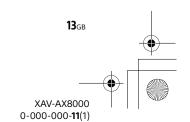
 (Available only when [Seek By] is set to [Station Gp].)

Preset numbers

Select a preset station. Swipe right/left to show the other preset stations.

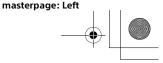
Touch and hold to store the current station in that preset.







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Searching for station by station group

Before operation, set [Seek By] to [Station Gp] for searching by station groups (page 14).

Touch SEEK+/- to search for a station. Scanning stops when the unit receives a station. Search until the desired station is received.

To search for a station group

Touch and hold </ > to search for a station group and release when the desired station group is displayed.

Storing a station manually

1 While receiving the station that you want to store, touch and hold the desired preset number.

Receiving stored stations

1 Touch the desired preset number.

Searching for station by station name

Before operation, set [Seek By] to [A-Z] for searching by station name (page 00).

Touch :≣. The station list appears.

2 Touch the desired station.

To search from playback screen

Touch SEEK+/- to switch to the previous/next station

To update the station list

Touch **: =**, then touch [Auto Tune].

Using DAB Option Functions (Europe/Israel models only)

The following functions are available by touching

Seek By

Sets the station search mode: [A-Z] (Search by station name), [Station Gp] (Search by station group).

Announce

Enables DAB announcements with interrupting the currently selected source: [ON], [OFF]. During a DAB announcement, the volume is adjusted to the level set for TA in RDS (page 00).

Soft Link

Searches for and tunes to the same or similar program automatically when the signal of the current program is too weak to receive: [ON],

"Hard Link" follows the same program, and "Soft Link" follows a similar program.

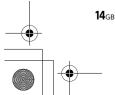
	DAB		FM	
Soft Link	Hard Link	Soft Link	Hard Link	Soft Link
OFF	1	-	✓	-
ON	1	1	✓	1

Information

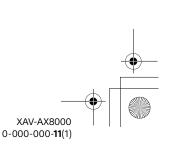
Displays the currently selected station group name, station name, PTY type of the station, etc.

Antenna Power

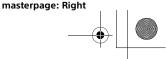
Supplies power to the DAB antenna (aerial) input terminal: [ON], [OFF].







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Playing a USB Device

MSC (Mass Storage Class) type USB devices* compliant with the USB standard can be used.

* e.g., a USB flash drive, digital media player, Android™ phone

Notes

- For details on the compatibility of your USB device, visit the support site on the back cover.
- For details on the supported file formats, see "Supported formats for USB playback" (page 23).
- 1 Turn down the volume on the unit.
- 2 Connect the USB device to the USB port.
- 3 Press HOME, then touch [USB].

To remove the USB device

Turn the unit off or turn the ignition switch to the ACC off position, then remove the USB device.

Playing a BLUETOOTH Device

You can play contents on a connected device that supports BLUETOOTH A2DP (Advanced Audio Distribution Profile).



- 1 Make a BLUETOOTH connection with the audio device (page 10).
- **2** Press HOME, then touch [BT Audio].
- **3** Operate the audio device to start playback.

Notes

- Depending on the audio device, information such as title, track number/time, and playback status may not be displayed on this unit.
- Even if the source is changed on this unit, playback of the audio device does not stop.
- BLUETOOTH pairing is not possible while Apple CarPlay is rupping.

To match the volume level of the BLUETOOTH device to other sources

You can reduce the volume level differences between this unit and the BLUETOOTH device: During playback, touch •••, then set [Input Level] between -6 and +6.

Searching and Playing Tracks

Repeat play and shuffle play

1 During playback, touch (repeat) or (shuffle) repeatedly until the desired play mode appears.

Playback in the selected play mode may take time to start.

Available play modes differ depending on the selected sound source and connected device.

Searching for a file from the list screen

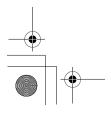
1 During USB playback, touch : ■. The list screen of the currently played item appears.

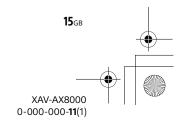


Furthermore, touch **刀** (audio) or **囗** (video) to list up by file type.

2 Touch the desired item. Playback starts.

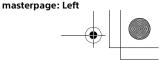








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Other Settings During Playback

Further settings are available in each source by touching The available items differ depending on the source.

Picture EQ

Adjusts the picture quality according to your taste: [Dynamic], [Standard], [Theater], [Custom]. (Available only when the parking brake is applied and USB video is selected.)

Aspect

Selects an aspect ratio for the screen of the unit. (Available only when the parking brake is applied and USB video is selected.)

Normal

Displays a 4:3 picture in its original size, with side bars to fill the 16:9 screen.

Zoom

Displays a 16:9 picture that has been converted into 4:3 letter box format.

Full

Displays a 16:9 picture in its original size.

Captions

Enlarges the picture horizontally, while fitting captions in the screen.

Handsfree Calling

Preparing a Mobile Phone

To use a mobile phone, connect it with this unit. For details, see "Preparing a Bluetooth® Device" (page 9).



The handsfree calling functions are not available when the Apple CarPlay or Android Auto function is activated. In this case, use the handsfree calling functions of the application.

Receiving a Call

1 Touch
when a call is received. The phone call starts.

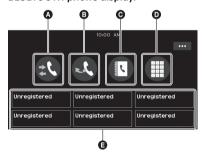
The ringtone and talker's voice are output only from the front speakers.

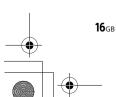
To reject/end a call

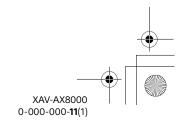
Touch 🛧.

Making a Call

- 1 Press HOME, then touch [Phone].
- 2 Touch one of the call icons on the BLUETOOTH phone display.

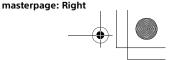








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Select a contact from the call history list. The unit stores the last 20 calls.

③ [♣] (redial)

Make a call automatically to the last contact you made.

Select a contact from the name list/number list. To search for the desired contact in alphabetical order from the name list, touch @.

(dialpad)

Enter the phone number.

Favorites

Select the stored contact.
To store the contact, see "Adding phone numbers to Favorites" (page 17).

* The mobile phone needs to support PBAP (Phone Book Access Profile).

3 Touch C.

The phone call starts.

Adding phone numbers to Favorites

You can store up to 6 contacts in the Favorites.

1 On the phone screen, touch (contacts) and select a phone number you want to store in the Favorites.

The confirmation display appears.

- 2 Touch [Add to Favorites].
- **3** Touch the desired preset in the Favorites to store the phone number.

The contact is stored in the Favorites.

Available Operations During a Call

To adjust the ringtone volume

Press VOL +/- while receiving a call.

To adjust the talker's voice volume

Press VOL +/- during a call.

To adjust the volume for the other party (Mic gain adjustment)

During a handsfree call, touch •••, then set [MIC Gain] to [High], [Middle], or [Low].

To reduce echo and noise (Echo/noise canceler mode)

During a call, touch •••, then set [Speech Quality] to [Mode 1] or [Mode 2].

To switch between handsfree mode and handheld mode

During a call, touch $\P \leftrightarrow \P$ to switch the phone call audio between the unit and mobile phone.

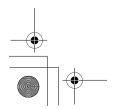
Note

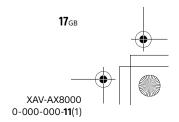
Depending on the mobile phone, this operation may not be available

To answer an incoming call automatically

Touch •••, then set [Auto Answer] to [ON].

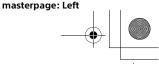








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Apple CarPlay

Apple CarPlay lets you use your iPhone in the car in a way that allows you to stay focused on the road.

Notes on using Apple CarPlay

- Check the Apple CarPlay website for supported iOS versions. Update to the latest iOS version before use.
- For details on compatible models, refer to the compatibility list on the support site on the back cover.
- For details about Apple CarPlay, refer to the manual supplied with your iPhone, or visit the Apple CarPlay website.
- Since the GPS on your iPhone is used, place your iPhone where it can easily receive a GPS signal.
- 1 Connect your iPhone to the USB port.
 To connect an iPhone, use a USB connection cable for iPhone (not supplied).
- 2 Press HOME, then touch the Apple CarPlay icon.

Your iPhone's display appears on the display of the unit. Touch and control the applications.

Use of the Apple CarPlay logo means that a vehicle user interface meets Apple performance standards. Apple is not responsible for the operation of this vehicle or its compliance with safety and regulatory standards.

Please note that the use of this product with iPhone may affect wireless performance.

Android Auto™

Android Auto extends the Android platform into the car in a way that's purpose-built for driving.

Notes on using Android Auto

- Check the Android Auto website for supported OS versions. Update to the latest OS version before use.
- Your Android phone needs to support Android Auto. For details on compatible models, refer to the compatibility list on the support site on the back cover.
- Download the Android Auto app on Google Play.
- For details about Android Auto, refer to the manual supplied with your Android phone, or visit the Android Auto website.
- Since the GPS on your Android phone is used, place your Android phone where it can easily receive a GPS signal.
- Android Auto may not be available in your country or region.
- Connect your Android phone to the USB port.

To connect an Android phone, use an appropriate connection cable (not supplied).

2 Press HOME, then touch the Android Auto icon.

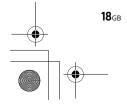
The Android Auto interface will be displayed fullscreen on the display of the unit. Touch and control the applications.

WebLink™ (India models only)

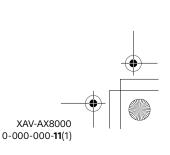
The "WebLink Host" app allows you to enjoy the "WebLink Apps" such as a video or music player on the connected iPhone/Android phone.

Notes on using WebLink™

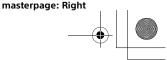
- An Android phone with Android 5.0 or higher, or iPhone with iOS 10 or later is required. Update to the latest OS version before use.
- Your iPhone/Android phone needs to support the "WebLink Host" app. For details on compatible models, refer to the compatibility list on the support site on the back cover.
- Download the "WebLink Host" app available on Google Play for your Android phone, and available on the App Store for your iPhone.
- For details about the "WebLink Apps", refer to the manual supplied with your "WebLink Apps", or visit the website for the "WebLink Apps".
- The WebLink™ function and/or a certain "WebLink Apps" may not be available in your country or region.



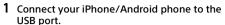




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When connecting an iPhone, use a USB connection cable for iPhone (not supplied).

2 Press HOME, then touch the WebLink™ icon. The WebLink™ display appears on the unit. Touch and control the apps.

Tip

You can switch the app between Apple CarPlay/Android Auto and WebLink[™] if these apps are installed on your iPhone/Android phone.

Using Gesture Command

You can perform frequently-used operations by swiping your finger on the reception/playback display.

Note

The gesture commands explained below are not available on the screens of Apple CarPlay, Android Auto, and WebLink™ (India models only).

Do this	То			
Swipe left to right	Radio reception: seek forward stations. (The same as pressing and holding ▶►I.) SiriusXM reception (US/Canada models only): tune the next channel (channel +).			
	Video/audio playback: skip forward a file/track. (The same as ►►I.)			
Swipe right to left	Radio reception: seek backward stations. (The same as pressing and holding I◄◄.) SiriusXM reception (US/Canada models only): tune the previous channel (channel –).			
	Video/audio playback: skip backward a file/track. (The same as I◀◀.)			
Swipe upwards	Radio reception: receive stored stations (go forward). SiriusXM reception (US/Canada models only): tune the next preset (preset +).			
Swipe downwards	Radio reception: receive stored stations (go backward). SiriusXM reception (US/Canada models only):			

tune the previous preset

(preset -).

Settings

Basic Setting Operation

You can set items in the following setup categories: General Settings (General), Sound Settings (Sound), Visual Settings (Visual), BLUETOOTH Settings (Bluetooth).

- 1 Press HOME, then touch [Settings].
- 2 Touch one of the setup category. The items that can be set differ depending on the source and settings.
- 3 Move the scrollbar up and down to select the desired item.

To return to the previous display Touch **5**.

To switch to the playback screen
Touch ▶
.

General Settings (General)

Language

Selects the display language: [English], [Español], [Français], [Deutsch], [Italiano], [Português], [Русский], [খր৪], [교東의], [简体中文], [繁體中文], [한국어], [Indonesia].

Demo

Activates the demonstration: [OFF], [ON].

Date/Time

Set Date/Time

Sets the date and clock time: [Auto(RDS)], [Manual].

For Europe/Israel models only:

Sets the date and clock time: [Auto(DAB)], [Manual].

Date Format

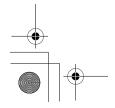
Selects the format: [DD/MM/YYYY], [MM/DD/YYYY], [YYYY/MM/DD].

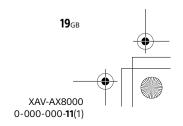
Time Format

Selects the format: [12-hour], [24-hour].

Beep

Activates the operation sound: [OFF], [ON].

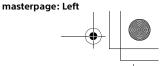








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Rear View Camera

Selects the image from the rear view camera: [OFF], [Normal], [Reverse] (mirror image). [Guide Line Adjust] adjusts the guide on the picture from the rear view camera.

Touch the near side (A) or far side (red portions) of the guide to adjust.

Touch </^/>
/∨ to adjust the guide position, and touch



 \rightarrow \leftarrow or \leftarrow \rightarrow to adjust the guide width.

Steering Control

Selects the input mode for the connected remote control. To prevent a malfunction, be sure to match the input mode with the connected remote control before use.

Custom

Input mode for the steering wheel remote control (follow the procedures of 🏖 to register functions on the connected remote control).

Input mode for the wired remote control excluding the steering wheel remote control.

The steering button panel appears.

- 1 Press and hold the button you want to assign to the steering wheel.
 - The button on the panel lights up (standby).
- 2 Press and hold the button on the steering wheel you want to assign the function to. The button on the panel will change the color (highlighted or encircled by an orange line).
- 3 To register other functions, repeat steps 1 and 2

(Available only when [Steering Control] is set to [Custom].)

- While making settings, the connected remote control cannot be used even though some functions have already been registered. Use the buttons on the unit.
- If an error occurs while registering, all the registered information is cleared. Restart registration from the
- This function may not be available on some vehicles For details on the compatibility of your vehicle, visit the support site on the back cover.

Selects the driving position to optimize usability of Apple CarPlay and Android Auto: [Left Side], [Right Side].

Tuning Steps (Asia Pacific, Oceania, Middle East (excluding Israel) and India models only)

Sets the FM/AM tuning step of your country: [50kHz/9kHz], [100kHz/10kHz], [200kHz/10kHz].

SXM Reset (US/Canada models only)

Initializes the SiriusXM Connect Vehicle Tuner settings (preset channels/parental lock): [Reset], [Cancel].

Factory Reset

Initializes all the settings to the factory settings.

Firmware Version

Open Source Licenses

Sound Settings (Sound)

EXTRA BASS

Reinforces bass sound in synchronization with the volume level: [OFF], [1], [2].

EQ10/Subwoofer

Selects an equalizer curve and adjusts the subwoofer level.

(Available when any source is selected.) EO10

For US/Canada models only:

Selects the equalizer curve: [OFF], [R&B], [Rock], [Pop], [Hip-Hop], [Dance], [EDM], [Jazz], [Soul], [Country], [Custom].

For Asia Pacific, Oceania, and Middle East (excluding Israel) models only:

Selects the equalizer curve: [OFF], [R&B], [Rock], [Pop], [Dance], [Hip-Hop], [EDM], [Jazz], [Regueton], [Salsa], [Custom].

For India models only:

Selects the equalizer curve: [Bollywood], [R&B], [Rock], [Pop], [Hip-Hop], [Dance], [EDM], [Jazz], [Requeton], [Custom], [OFF].

[Custom] adjusts the equalizer curve: -6 to +6. Subwoofer

Adjusts the volume level of the subwoofer: [OFF], -10 to +10.

DSO (Dynamic Stage Organizer)

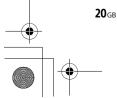
Enhances audio output: [OFF], [Low], [Middle], [High].

Balance/Fader

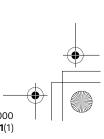
Adjusts the balance/fader level.

Adjusts the sound balance between the left and right speakers: [L15] to [R15].

Adjusts the sound balance between the front and rear speakers: [Front 15] to [Rear 15].





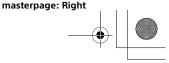


Updates and confirms the firmware version.

Displays the software licenses.

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Adjusts the cut-off frequency and subwoofer phase.

High Pass Filter

Selects the cut-off frequency of the front/rear speakers: [OFF], [50Hz], [60Hz], [80Hz], [100Hz], [120Hz].

Low Pass Filter

Selects the cut-off frequency of the subwoofer: [OFF], [50Hz], [60Hz], [80Hz], [100Hz], [120Hz].

Subwoofer Phase

Selects the subwoofer phase: [Normal], [Reverse].

Phone Call Sound

Selects the speakers for handsfree calling: [Front], [Rear], [All].

Visual Settings (Visual)

Wallpaper

Changes the wallpaper by touching the desired color.

(Available after updating the firmware.)

Dimmer for Monitor & Illum.

Dims the display and the button illumination: [OFF], [Auto], [ON].

([Auto] is available only when the illumination control lead is connected and works when the head light is turned on.)

adjusts the brightness level when the dimmer is activated: -5 to +5.

Illum. Level on Monitor OFF

Dims the button illumination when the monitor is turned off: [OFF], [1], [2], [3], [4].

Touch Panel Adjust

Adjusts the touch panel calibration if the touching position does not correspond with the proper item.

BLUETOOTH Settings (Bluetooth)

Bluetooth Connection

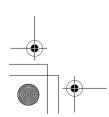
Activates the BLUETOOTH signal: [OFF], [ON], [Pairing] (enters into pairing standby mode).

Bluetooth Device Info

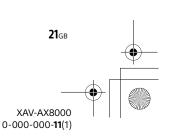
Displays the information of the BLUETOOTH device connected to the unit. (Available only when [Bluetooth Connection] is set to [ON] and a BLUETOOTH device is connected to the unit.)

Bluetooth Reset

Initializes all BLUETOOTH-related settings such as pairing information, call history, history of connected BLUETOOTH devices, etc.

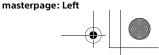








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Canceling the Demonstration Mode

- 1 Press HOME, then touch [Settings].
- 2 Touch [General], then touch [Demo] to set to
- 3 To exit the setup menu, touch (back)twice

Updating the Firmware

To update the firmware, visit the support site on the back cover, then follow the online instructions.

During the update, do not remove the USB device.

Precautions

- Power antenna (aerial) extends automatically.
- When you transfer ownership or dispose of your car with the unit installed, initialize all the settings to the factory settings by performing the factory reset (page 20).
- Do not splash liquid onto the unit.

Notes on safety

- · Comply with your local traffic rules, laws, and regulations.
- While driving
- Do not watch or operate the unit, as it may lead to distraction and cause an accident. Park your car in a safe place to watch or operate the unit.
- Do not use the setup feature or any other function which could divert your attention from the road.
- When backing up your car, be sure to look back and watch the surroundings carefully for your safety even if the rear view camera is connected. Do not depend on the rear view camera exclusively.
- While operating
- Do not insert your hands, fingers, or foreign objects into the unit as it may cause injury or damage to the unit.
- Keep small articles out of the reach of children.
- Be sure to fasten seatbelts to avoid injury in the event of sudden movement of the car.

Preventing an accident

Pictures appear only after you park the car and set the parking brake.

If the car starts moving during video playback, the following caution is displayed and you cannot watch the video.

[Video blocked for your safety.]

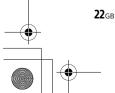
Do not operate the unit or watch the monitor while driving.

Notes on LCD panel

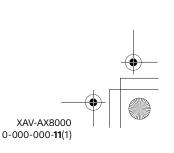
- Do not get the LCD panel wet or expose it to liquids. This may cause a malfunction.
- Do not press down hard on the LCD panel as doing so can distort the picture or cause a malfunction (i.e., the picture may become unclear or the LCD panel may be damaged).



- Do not touch the panel with objects other than with your finger as it may damage or break the LCD panel.
- Clean the LCD panel with a dry soft cloth. Do not use solvents such as benzine, thinner,
- commercially available cleaners, or antistatic spray. • Do not use the unit outside the temperature range 0 °C to 40 °C (32 °F to 104 °F).
- If your car was parked in a cold or hot place, the picture may not be clear. However, the monitor is not damaged and the picture will become clear after the temperature in your car becomes normal.
- · Some stationary blue, red, or green dots may appear on the monitor. These are called "bright spots" and can happen with any LCD. The LCD panel is precision-manufactured with more than 99.99% of its segments functional. However, it is possible that a small percentage (typically 0.01%) of the segments may not light up properly. This will not, however, interfere with your viewing.

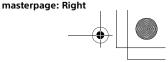




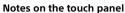




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• This unit uses a resistive touch panel. Touch the panel directly with your fingertip.

• Multi-touch operation is not supported on this unit

• Do not touch the panel with sharp objects such as a needle, pen, or fingernail. Operation with a stylus is not supported on this unit.

• Do not let any objects contact the touch panel. If the panel is touched by an object other than your fingertip, the unit may not respond correctly.

• Since glass material is used for the panel, do not subject the unit to strong shock. If cracking or chipping occurs on the panel, do not touch the damaged part as it may cause injury.

• Keep other electrical devices away from the touch panel. They may cause the touch panel to malfunction.

Supported formats for USB playback

- WMA (.wma)*1*2

Bit rate: 48 kbps - 192 kbps (Supports variable bit rate (VBR))*3

Sampling frequency*4: 44.1 kHz

- MP3 (.mp3)*1*2

Bit rate: 48 kbps – 320 kbps (Supports variable bit

Sampling frequency*4: 32 kHz, 44.1 kHz, 48 kHz

AAC (.m4a)*1*2

Bit rate: 40 kbps - 320 kbps (Supports variable bit rate (VBR))*3

Sampling frequency*4: 8 kHz - 48 kHz Bit per sample (Quantization bit): 16 bits

FLAC (.flac)*1*6

Sampling frequency*4: 8 kHz – 48 kHz Bit per sample (Quantization bit): 16 bits

- WAV (.wav)*1

Sampling frequency*4: 8 kHz - 48 kHz

Bit per sample (Quantization bit): 16 bits, 24 bits

Xvid (.avi)

Video codec: MPEG-4 Advanced Simple Profile

Audio codec: MP3 (MPEG-1 Layer3) Bit rate: Max. 4 Mbps

Frame rate: Max. 30 fps (30p/60i) Resolution: Max. 1280 × 720*5

- MPEG-4 (.mp4)

Video codec: MPEG-4 Advanced Simple Profile,

AVC Baseline Profile Audio codec: AAC Bit rate: Max. 4 Mbps

Frame rate: Max. 30 fps (30p/60i) Resolution: Max. 1280 × 720*5

WMV (.wmv, .avi)*1

Video codec: WMV3, WVC1 Audio codec: MP3, WMA Bit rate: Max. 6 Mbps Frame rate: Max. 30 fps Resolution: Max. 720 × 480*5

MKV (.mkv)

Video codec: MPEG-4 Advanced Simple Profile,

AVC Baseline Profile Audio codec: MP3, AAC Bit rate: Max. 5 Mbps Frame rate: Max. 30 fps Resolution: Max. 1280 × 720*5

*1 Copyright-protected files and multi-channel audio files cannot be played back.

*2 DRM (Digital Rights Management) files cannot be played back.

*3 Non-standard bit rates or non-guaranteed bit rates are included depending on the sampling frequency.

*4 Sampling frequency may not correspond to all encoders. *5 These numbers indicate the maximum resolution of

playable video and do not indicate the player's display resolution. The display resolution is 800 × 480.

*6 Displaying the tag information is not supported.

Some files may not be played back even though their file formats are supported by the unit.

About iPhone

Compatible iPhone models:

iPhone XS Max, iPhone XS, iPhone XR, iPhone X, iPhone 8 Plus, iPhone 8, iPhone 7 Plus, iPhone 7, iPhone SE, iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6, iPhone 5s

 Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with an Apple product may affect wireless performance.



