

5-005-637-41(1)

AV RECEIVER

Operating Instructions **GB**

Manual de instrucciones **ES**

To switch the FM/AM tuning step, see page 15.

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

D



* 5 0 0 5 6 3 7 4 1 * (1)

Warning

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

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 QUÉBEC.

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. 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 radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF). 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-AX5110

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,
See

www.dtsc.ca.gov/hazardouswaste/perchlorate

Disclaimer regarding services offered by third parties

Services offered by third parties may be changed, suspended, or terminated without prior notice.

Important notice

Caution

IN NO EVENT SHALL WE 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.

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.

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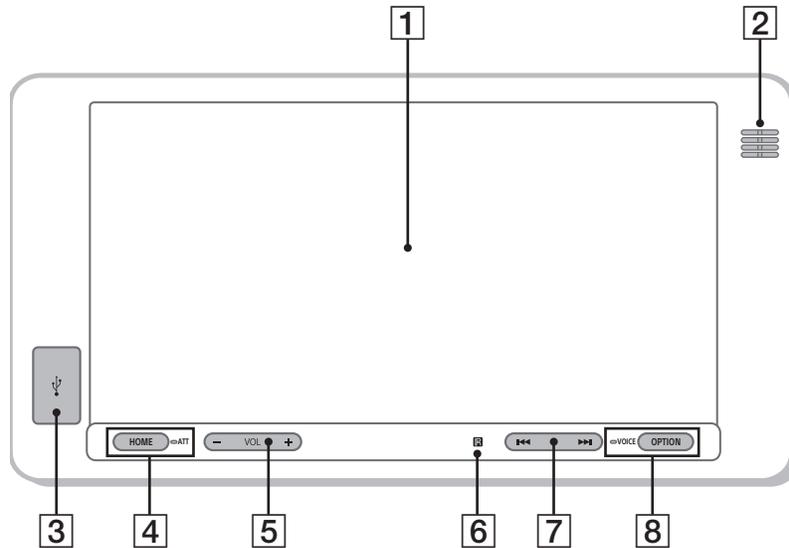
Connection

Connection 24

Getting Started

Guide to Parts and Controls

Main unit



1 Display/touch panel

2 Microphone (inner panel)

In order for the handsfree function to work properly, do not cover the microphone with tape, etc.

3 USB port 1

Supports audio/video playback from a smartphone or USB device.

4 HOME

Displays the HOME screen.

ATT (attenuate)

Press and hold for 1 second to attenuate the sound.
To cancel, press and hold again, or press VOL +.

5 VOL (volume) +/-

6 Receptor for the remote commander

7 <<</>>> (previous/next)

Functions differently depending on the selected source:

- Radio: select a preset station.
- USB/BT Audio: move to the previous/next file.

Press and hold to:

- Radio: tune into a station automatically (SEEK+/SEEK-).
- USB/BT Audio: fast-reverse/fast-forward.

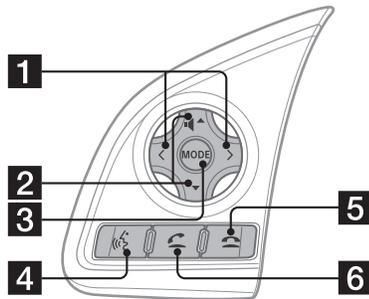
8 OPTION

Displays the OPTION screen (page 6).

VOICE

Press and hold to activate the voice command function for Apple CarPlay and Android Auto.

Steering wheel remote control



1 </>

Radio:

Tune in preset radio stations. Press and hold to tune automatically.

USB/BT Audio:

Skip a track. Press and hold to fast-reverse/fast-forward a track.

2 (volume) ▲/▼

Adjusts the volume. Press and hold to continue adjusting the volume.

3 MODE

Changes the source.

Selecting the radio band/transferring a call are not available with this button.

4 (speech)

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

5 (on hook)

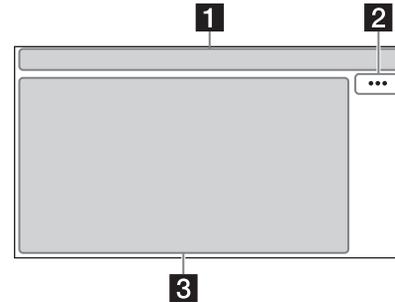
Ends a call/rejects an incoming call.

6 (off hook)

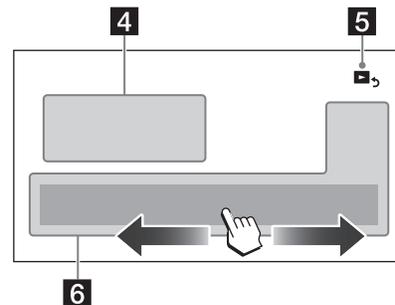
Answers a call.

Screen displays

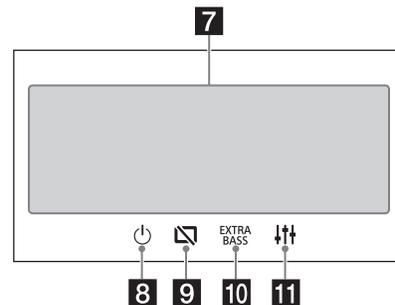
Playback screen:



HOME screen:



OPTION screen:



1 Status indication

ATT Lights up when the sound is attenuated.

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).
	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 Date/ Time setting (page 15).
- 5 ▶ (return to the playback screen)**
Switches from the HOME screen to the playback screen.
- 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.

 Android Auto	 Apple CarPlay	 Radio
 BT Audio	 Phone	 USB port 1
 USB port 2	 Rear Camera	 Settings
 WebLink		

- 7 Sound select keys**
Changes the sound.
- 8 ⏻ (standby)**
Turns the unit in standby mode (USB charging is still available). To resume, press any buttons.
- 9 📺 (monitor off)**
Turns off the monitor. When the monitor is turned off, touch any part of the display to turn it back on.
- 10 EXTRA BASS (EXTRA BASS)**
Changes the EXTRA BASS setting (page 15).
- 11 📊 (EQ10/Subwoofer)**
Changes the EQ10/Subwoofer setting (page 15).

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 15) to initialize the unit.

- 1** Touch [Language], then set the display language.
- 2** Touch [Set Date/Time], then set the date and time.
- 3** Touch [Tuning Steps], then set the FM/AM tuning step.
- 4** To return to the previous display, touch ↶, then touch [OK].
The startup caution appears.
- 5** 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 15).

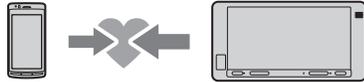
Preparing a BLUETOOTH Device

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.



- 1 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 set the signal to [ON].
The BLUETOOTH signal is turned on and lights up on the status bar of the unit.
- 5 Touch [Pairing].
 flashes while the unit is in pairing standby mode.
- 6 Perform pairing on the BLUETOOTH device so it detects this unit.
- 7 Select [Xpander] shown in the display of the BLUETOOTH device.
Repeat from step 5 if your model name does not appear.
- 8 If passkey* input is required on the BLUETOOTH device, input [0000].
* Passkey may be called "passcode," "PIN code," "PIN number," "password," etc., depending on the BLUETOOTH device.
When pairing is made, stays lit.
- 9 Select this unit on the BLUETOOTH device to establish the BLUETOOTH connection.
 or 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 device.
- 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 [ON].
Make sure that lights up on the status bar of the unit.
- 4 Activate the BLUETOOTH function on the BLUETOOTH device.
- 5 Operate the BLUETOOTH device to connect to this unit.
 or 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.

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.

To display the picture from the rear view camera

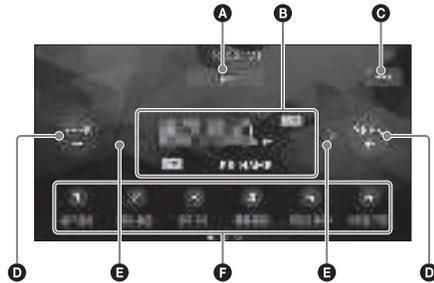
Press HOME, touch [Rear Camera].

Radio

Listening to the Radio

Tuning step setting is required (page 15).
Press HOME, then touch [Radio].

Reception controls/indications



- A Current band**
Change the band (FM1, FM2, FM3, AM1 or AM2).
- B Current frequency, program service name*, RDS (Radio Data System) indication***
* Only available during RDS reception.
- C ... (radio option)**
Open the radio option menu.
- D SEEK-/SEEK+**
Tune in automatically.
- E </>**
Tune in manually.
Touch and hold to continuously skip frequencies.
- F 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 </> to locate the approximate frequency, then touch </> repeatedly to finely adjust to the desired frequency.

Storing manually

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

Receiving stored stations

- 1** Select the band, then touch the desired preset number.

Using Radio 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 can be stored for FM and 12 stations for AM as preset stations.

PTY

Select a program type from the PTY list to search for a station broadcasting the selected program type.
(Only available during FM reception.)

Playback

Playing a USB Device

MSC (Mass Storage Class) type USB devices*1 compliant with the USB standard can be used. MTP (Media Transfer Protocol) type USB devices*1*2 can be used only when connected to the USB port 2.

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

*2 Some digital media players or Android phones may require setting to MTP mode.

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 17).

- 1 Turn down the volume on the unit.
- 2 Connect the USB device to the USB port.
- 3 Press HOME, then touch [USB port 1] or [USB port 2].
Playback starts.

To remove the device

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

USB port 1 and USB port 2

When connecting the USB devices, select the USB port 1 or the USB port 2 according to the features to be used.

Supported features		USB port 1	USB port 2
Apple CarPlay*		✓	-
Android Auto*		✓	-
WebLink™		✓	-
File system	FAT12	✓	✓
	FAT16	✓	✓
	FAT32	✓	✓
	exFAT	✓	-
Playable audio format	MP3	✓	✓
	WMA	✓	✓
	FLAC	✓	✓
	WAV	✓	-
	AAC	✓	-

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Supported features		USB port 1	USB port 2
Playable video format	MPEG-4	✓	-
	WMV	✓	-
	MKV	✓	-
	Xvid	✓	-
USB connection mode	MSC	✓	✓
	MTP	-	✓

✓: Available, -: Not supported

* Apple CarPlay and/or Android Auto may not be available in your country or region.

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 8).
- 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 running.

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

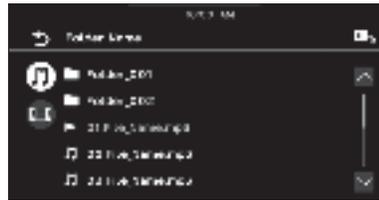
- 1 During playback, touch  (repeat) or  (shuffle) repeatedly until the desired play mode appears.

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 from the currently played item appears.



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

- 2 Touch the desired item. Playback starts.

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 car is stopped and USB video is selected).

Aspect

Selects an aspect ratio for the screen of the unit. (Available only when the car is stopped 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 7).



Note

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 on its application.

Receiving a Call

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

Note

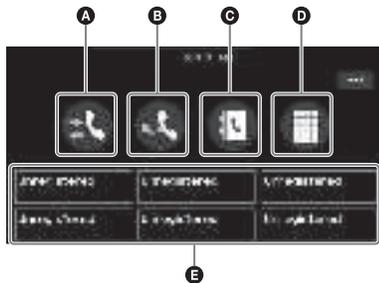
The ringtone and talker's voice are output from the front speakers. To select the speakers for handsfree calling, press HOME, then touch [Settings] and select [Phone Call Sound] in [Sound] (page 16).

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.



- A** (call history)*
Select a contact from the call history list. The unit stores the last 20 calls.
- B** (redial)
Make a call automatically to the last contact you made.

- C** (contacts)*

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

- D** (dialpad)

Enter the phone number.

- E** Favorites

Select the stored contact.

To store the contact, see "Adding phone numbers to Favorites" (page 12).

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

- 3 Touch .

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  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].

Useful Functions

Apple CarPlay

Apple CarPlay lets you use your iPhone in the car in a way that allows you to stay focused on the road. (Available only when your iPhone is connected to the USB port 1.)

Notes on using Apple CarPlay

- Check the Apple CarPlay website for supported iOS versions. Update to the latest iOS version before use.
- 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.
- Apple CarPlay may not be available in your country or region.

1 Connect your iPhone to the USB port 1.

To connect an iPhone, use a USB connection cable for iPhone (not supplied).

2 Press HOME, then touch [Apple CarPlay].

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. (Available only when your Android phone is connected to the USB port 1.)

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.
- 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.

1 Connect your Android phone to the USB port 1.

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

2 Press HOME, then touch [Android Auto].

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

WebLink™

The "WebLink Host" app allows you to enjoy the "WebLink Apps" such as a video or music player on the connected iPhone/Android phone. (Available only when your iPhone/Android phone is connected to the USB port 1.)

Notes on using WebLink™

- Check the WebLink™ website for supported OS versions. Update to the latest OS version before use.
- For details on compatible models, refer to the compatibility list on the following site: <http://abaltatech.com/WL>
- Download the "WebLink Host" app available on Google Play for your Android phone, and available on the App Store for your iPhone.
- A network connection may be required when configuring settings, such as during the initial connection setup. Make sure that a network connection is available on your iPhone/Android phone.
- When using the Cast function, settings on your iPhone/Android phone may be required.
- For details about the "WebLink Apps", 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.
- When using the Cast function and connecting the iPhone, the display direction is the same as the display of the iPhone.

1 Connect your iPhone/Android phone with main unit via BLUETOOTH.

2 Connect your iPhone/Android phone to the USB port 1.

To connect an iPhone, use a USB connection cable for iPhone (not supplied).

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

3 Press HOME, then touch [WebLink].

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.

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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™.

Do this	To
 Swipe left to right	Radio reception: seek forward stations. (The same as pressing and holding ►►.) <hr/> Video/audio playback: skip forward a file/track. (The same as ►►.)
 Swipe right to left	Radio reception: seek backward stations. (The same as pressing and holding ◀◀.) <hr/> Video/audio playback: skip backward a file/track. (The same as ◀◀.)
 Swipe upwards	Radio reception: receive stored stations (go forward).
 Swipe downwards	Radio reception: receive stored stations (go backward).

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 .

To switch to the playback screen

Touch .

General Settings (General)

Language

Selects the display language: [English], [Español], [Français], [Deutsch], [Italiano], [Português], [Русский], [العربية], [简体中文], [繁體中文], [한국어], [Indonesian].

Date/Time

Set Date/Time

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

Rear View Camera

Selects the image from the rear view camera: [OFF], [ON].

Rear Camera Guide Line

Displays the rear view camera guide lines: [ON], [OFF].

(Available only when [Rear View Camera] is set to [ON].)

Driving Position

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

Tuning Steps

Sets the FM/AM tuning step of your country: [50kHz/9kHz], [100kHz/10kHz], [200kHz/10kHz]. (Available only while the source is off and the clock is displayed.)

Factory Reset

Initializes all the settings to the factory settings.

Firmware Version

Updates and confirms the firmware version.

Open Source Licenses

Displays the software 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.

EQ10

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

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

Subwoofer

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

Balance/Fader

Adjusts the balance/fader level.

Balance

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

Fader

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

Crossover

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].

DSO (Dynamic Stage Organizer)

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

Phone Call Sound

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

Visual Settings (Visual)

Wallpaper

Changes the wallpaper by touching the desired color.

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].

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 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.

Additional Information

Updating the Firmware

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

Note

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 15).
- 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 stop the car. 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 – 40 °C (32 °F – 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.

Notes on the touch panel

- This unit uses a capacitive 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.
- Touching the panel with a gloved finger may cause the unit to operate incorrectly or not respond.
- 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.
- If there are water droplets on the touch panel, or if you touch the panel with wet fingertips, the touch panel may not react correctly.

Supported formats for USB playback

USB port 1:

- 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 rate (VBR))*3
 - 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

USB port 2:

- 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 rate (VBR))*3
 - Sampling frequency*4: 32 kHz, 44.1 kHz, 48 kHz
- FLAC (.flac)*1
 - Sampling frequency*4: 8 kHz – 48 kHz
 - Bit per sample (Quantization bit): 8 bits, 16 bits, 24 bits

- *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.

Note

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

About iPhone

- **Compatible iPhone models:**
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.

Notice on license

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For details on software licenses, see page 15.

Notice on GNU GPL/LGPL applied software

This product contains software that is subject to the following GNU General Public License (hereinafter referred to as "GPL") or GNU Lesser General Public License (hereinafter referred to as "LGPL"). These establish that customers have the right to acquire, modify, and redistribute the source code of said software in accordance with the terms of the GPL or LGPL displayed on this unit. The source code for the above-listed software is available on the Web.

To download, please access the following URL then select the model name "XAV-AX5110."

URL: <http://www.sony.net/Products/Linux/>

Please note that Sony cannot answer or respond to any inquiries regarding the content of the source code.

Specifications

Monitor section

Display type: Wide LCD color monitor
Dimensions: 176 mm (6.95 in)
System: TFT active matrix
Number of pixels:
1,152,000 pixels (800 × 3 (RGB) × 480)
Color system: PAL/NTSC

Radio section

FM

Tuning range:
87.5 MHz – 108.0 MHz (at 50 kHz step)
87.5 MHz – 108.0 MHz (at 100 kHz step)
87.5 MHz – 107.9 MHz (at 200 kHz step)

FM tuning step:

50 kHz/100 kHz/200 kHz switchable

Usable sensitivity: 7 dBf

Signal-to-noise ratio: 70 dB (mono)

Separation at 1 kHz: 45 dB

AM

Tuning range:
531 kHz – 1,602 kHz (at 9 kHz step)
530 kHz – 1,710 kHz (at 10 kHz step)

AM tuning step:

9 kHz/10 kHz switchable

Sensitivity: 32 µV

USB player section

Interface:

USB port 1: USB (Hi-speed)
USB port 2: USB (Full-speed)

Maximum current:

USB port 1: 1.5 A
USB port 2: 500 mA

Wireless communication

Communication System:

BLUETOOTH Standard version 3.0

Output:

BLUETOOTH Standard Power Class 2
(Max. Conducted +1 dBm)

Maximum communication range*1:

Line of sight approx. 10 m (33 ft)

Frequency band:

2.4 GHz band (2.4000 GHz – 2.4835 GHz)

Modulation method: FHSS

Compatible BLUETOOTH Profiles*2:

A2DP (Advanced Audio Distribution Profile) 1.3
AVRCP (Audio Video Remote Control Profile) 1.3
HFP (Handsfree Profile) 1.6
PBAP (Phone Book Access Profile) 1.1

Corresponding codec: SBC, AAC

18GB

- *1 The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, reception sensitivity, antenna (aerial)'s performance, operating system, software application, etc.
- *2 BLUETOOTH standard profiles indicate the purpose of BLUETOOTH communication between devices.

Power amplifier section

Outputs: Speaker outputs
Speaker impedance: 4 Ω – 8 Ω
Maximum power output: 55 W \times 4 (at 4 Ω)

General

Power requirements: 12 V DC car battery
(negative ground (earth))
Rated current consumption: 10 A
Dimensions:
Approx. 210 mm \times 109 mm \times 139 mm
(8 $\frac{3}{8}$ in \times 4 $\frac{3}{8}$ in \times 5 $\frac{1}{2}$ in) (w/h/d)
Mass: Approx. 1.1 kg (2 lb 7 oz)
Package contents:
Main unit (1)

Ask the dealer for detailed information.

Design and specifications are subject to change without notice.

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Troubleshooting

The following checklist will help you remedy problems you may encounter with your unit. Before going through the checklist below, check the connection and operating procedures. If the problem is not solved, visit the support site on the back cover.

General

There is no beep sound.

- An optional power amplifier is connected and you are not using the built-in amplifier.

The fuse has blown.

The unit makes noise when the position of the ignition is switched.

- The leads are not matched correctly with the car's accessory power connector.

The display disappears from/does not appear on the monitor.

- The monitor off function is activated (page 7).
 - Touch anywhere on the display to turn the display back on.

Menu items cannot be selected.

- Unavailable menu items are displayed in gray.

The USB functions do not work properly.

- Do not use a USB extension cable as it may cause deterioration of signal quality.
 - Use a shorter USB cable when connecting the USB device, or replace the USB cable with a new one.

The unit cannot be operated.

- Press and hold HOME for more than 10 seconds to restart the unit. For your safety, do not restart the unit while you are driving.

The clock set automatically is not accurate.

- The clock data on radio waves is not accurate.
 - Set the clock manually (page 15).

Touch panel operation

The touch panel does not react to your touch correctly.

- Touch one part of the touch panel at a time. If two or more parts are touched simultaneously, the touch panel will not react correctly.
- Touch the pressure sensitive panel firmly.
- The touch panel does not react when touching with a wet fingertip or when water droplets are on the touch panel.
 - Dry your wet fingertips well, or fully wipe water droplets off of the touch panel.

Multi-touch is not recognized.

- Multi-touch operation is not supported on this unit.

Radio reception

The radio reception is poor.

Static noise occurs.

- Connect the antenna (aerial) firmly.

The stations cannot be received.

- The tuning step setting has been erased.
 - Set the tuning step again (page 15).

RDS

PTY displays [PTY not found.].

- The current station is not an RDS station, or the radio reception is poor.

Picture

There is no picture/picture noise occurs.

- A connection has not been made correctly.
- Check the connection between this unit and other equipment and set the input selector of the equipment to the source corresponding to this unit.
- Installation is not correct.
 - Install the unit at an angle of less than 30° in a sturdy part of the car.
- Pictures appear only after you stop the car.

The picture does not fit in the screen.

- The aspect ratio is fixed on the playback source.

Sound

There is no sound/sound skips/sound cracks.

- A connection has not been made correctly.
- Check the connection between this unit and the connected equipment and set the input selector of the equipment to the source corresponding to this unit.
- Installation is not correct.
 - Install the unit at an angle of less than 30° in a sturdy part of the car.
- The unit is in pause/reverse/fast-forward mode.
- The settings for the outputs are not made correctly.
- The volume is too low.
- The ATT function is activated.
- The format is not supported.
 - Check if the format is supported by this unit (page 17).

Sound is noisy.

- Keep cords and cables away from each other.

USB playback

Items cannot be played.

- Reconnect the USB device.
- The USB port to which the USB device is connected is not appropriate.
 - Connect the USB device to the appropriate USB port that supports the file formats (page 10).

The USB device takes longer to play.

- The USB device contains large-sized files or files with a complicated tree structure.

Audio files cannot be played.

- USB devices formatted with file systems other than FAT12, FAT16, FAT32 or exFAT*1 are unsupported.*2
- The USB port to which the USB device is connected is not appropriate.
 - Connect the USB device to the appropriate USB port that supports the file systems (page 10).

*1 USB devices formatted with the exFAT file system are available only when connected to the USB port 1.

*2 This unit supports FAT12, FAT16, FAT32 and exFAT, but some USB device may not support all of these. For details, refer to the operating instructions of each USB device or contact the manufacturer.

Operations cannot be performed.

- The USB mode of the device is not set to the appropriate mode.
 - Make sure that the USB mode of the device is set to MSC or MTP mode.
- The USB port to which the USB device is connected is not appropriate.
 - Connect the USB device to the appropriate USB port that supports the features (page 10).

BLUETOOTH function

The other BLUETOOTH device cannot detect this unit.

- Set [Bluetooth Connection] to [ON] (page 16).
- While connecting to a BLUETOOTH device, this unit cannot be detected by another device. Terminate the current connection and search for this unit from the other device.
- Depending on your smartphone or mobile phone, you may need to delete this unit from the history of the connected smartphone or mobile phone then pair them again (page 7).

Connection is not possible.

- Check the pairing and connection procedures in the manual of the other device, etc., and perform the operation again.

The name of the detected device does not appear.

- Depending on the status of the other device, it may not be possible to obtain the name.

There is no ringtone.

- Raise the volume while receiving a call.
- The speakers are not connected to the unit.
 - Connect the speakers to the unit. To select the speakers for ringtone, press HOME, then touch [Settings] and select [Phone Call Sound] in [Sound] (page 16).

The talker's voice volume is low.

- Raise the volume during a call.

The other party says that the volume is too low or high.

- Adjust the [MIC Gain] level (page 13).

Echo or noise occurs during call conversations.

- Reduce the volume.
- Set [Speech Quality] to [Mode 1] or [Mode 2]. (page 13).
- If ambient noise other than the phone call sound is loud, try reducing this noise.
 - Shut the window if road noise is loud.
 - Lower the air conditioner if the air conditioner is loud.

The phone sound quality is poor.

- Phone sound quality depends on reception conditions of the mobile phone.
 - Move your car to a place where you can enhance the mobile phone's signal if the reception is poor.

The volume of the connected BLUETOOTH device is low or high.

- Volume level will differ depending on the BLUETOOTH device.
 - Reduce the volume level differences between this unit and the BLUETOOTH device (page 10).

The sound skips during audio streaming or the BLUETOOTH connection fails.

- Reduce the distance between the unit and the BLUETOOTH device.
- If the BLUETOOTH device is stored in a case which interrupts the signal, remove the case while using the device.
- Several BLUETOOTH devices or other devices (e.g. ham radio devices) which emit radio waves are used nearby.
 - Turn off the other devices.
 - Increase the distance between the unit and other devices.
- Playback sound stops momentarily when this unit is connecting to a mobile phone. This is not a malfunction.

The connected BLUETOOTH device cannot be controlled during audio streaming.

- Check that the connected BLUETOOTH device supports AVRCP.

Some functions do not work.

- Check that the connecting device supports the functions in question.

A call is answered unintentionally.

- The connecting phone is set to start a call automatically.
- [Auto Answer] of this unit is set to [ON] (page 13).

Pairing failed due to time out.

- Depending on the connecting device, the time limit for pairing may be short. Try completing the pairing within the time.

Cannot pair.

- The unit may not be able to pair with a previously paired BLUETOOTH device after initializing the unit if the pairing information of the unit is on the BLUETOOTH device. In this case, delete the pairing information of the unit from the BLUETOOTH device, and then pair them again.

The BLUETOOTH function cannot be operated.

- Turn the ignition off. Wait for a while, then turn the ignition to the ACC position.

No sound is output from the car speakers during a handsfree call.

- If the sound is output from the mobile phone, set the mobile phone to output the sound from the car speakers.

Apple CarPlay

The Apple CarPlay icon does not appear on the HOME screen.

- Your iPhone is not compatible with Apple CarPlay.
 - Refer to the manual supplied with your iPhone, or visit the Apple CarPlay website.
- Disconnect your iPhone from the USB port 1 and reconnect it again.
- The USB port to which your iPhone is connected is not appropriate.
 - Connect your iPhone to the USB port 1.
- Apple CarPlay may not be available in your country or region.
- Make sure a certified Lightning cable is used to connect your iPhone and the unit.

Android Auto

The Android Auto icon does not appear on the HOME screen.

- Check your Android phone and accept the disclaimers and permission requests required to use Android Auto on your Android phone.
- There is no Android Auto application installed on your Android phone.
 - Download and install the Android Auto application onto your Android phone.
- Your Android phone is not compatible with Android Auto.
 - Your Android phone needs to support Android Auto. Refer to the manual supplied with your Android phone, or visit the Android Auto website.
- Disconnect your Android phone from the USB port 1 and reconnect it again.
- The USB port to which your Android phone is connected is not appropriate.
 - Connect your Android phone to the USB port 1.
- Android Auto may not be available in your country or region.

WebLink™

WebLink™ cannot be used.

- Installing the “WebLink Host” app to your iPhone/Android phone is required.
 - Check the following site, and install the “WebLink Host” app.
<http://abaltatech.com/WL>
 - Check your iPhone/Android phone and accept the disclaimers and permission to use WebLink™ on your iPhone/Android phone.
- Disconnect your iPhone/Android phone from the USB port 1 and reconnect it again.
- The USB port to which your iPhone/Android phone is connected is not appropriate.
 - Connect your iPhone/Android phone to the USB port 1.
- Restart your iPhone/Android phone.
- WebLink™ may not be available in your country or region.

There is no sound./The sound is low.

- Your iPhone/Android phone is not connected to the unit via BLUETOOTH.
 - Make a BLUETOOTH connection.
- The volume level of [BT Audio] is low.
 - Adjust the volume level of [BT Audio].

Messages

General

Cannot play this content.

- The currently selected content cannot be played back, or skipped to the next one.
 - The content is not in a supported file format. Check supported file formats (page 17).

Device no response

- The unit does not recognize the connected USB device.
 - Reconnect the USB device.
 - Check that the USB device is supported by the unit.

No Playable Data

- The USB device has no playable data.
 - Load music data/files into the USB device.

Overcurrent caution on USB.

- The USB device is overloaded.
 - Disconnect the USB device.
 - Indicates that the USB device is out of order, or an unsupported device is connected.

USB device not supported

- For details on the compatibility of your USB device, visit the support site on the back cover.

USB hub not supported

- USB hubs are not supported on this unit.

BLUETOOTH

Bluetooth device is not found.

- The unit cannot detect a connectable BLUETOOTH device.
 - Check the BLUETOOTH setting of the connecting device.
- No device is in the list of registered BLUETOOTH devices.
 - Perform pairing with a BLUETOOTH device (page 7).

Handsfree device is not available.

- A mobile phone is not connected.
 - Connect a mobile phone (page 8).

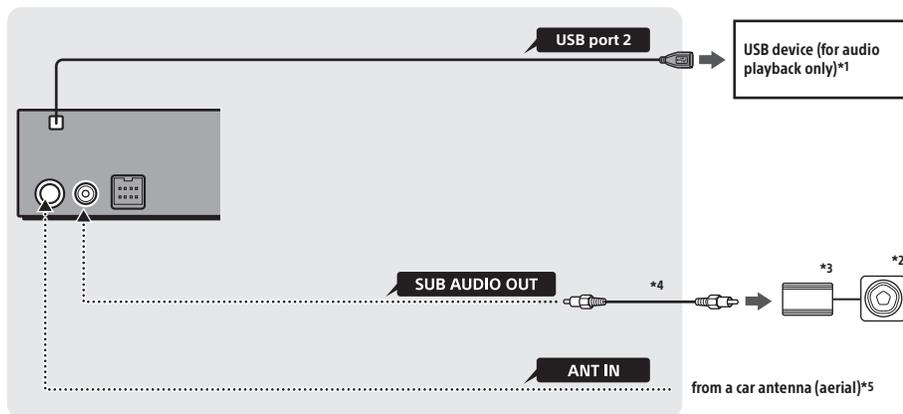
WebLink™

Please install and start the WebLink Host app on your phone. For more information visit www.abaltatech.com/wl

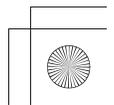
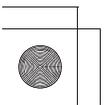
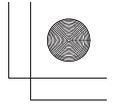
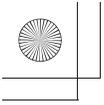
- Visit www.abaltatech.com/wl, and check the detail.

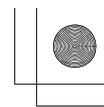
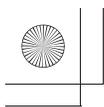
Connection

Connection



- *1 Do not use a USB extension cable.
- *2 Subwoofer (not supplied)
- *3 Power amplifier (not supplied)
- *4 RCA pin cord (not supplied)
- *5 Depending on the type of car, use an adaptor (not supplied) if the antenna (aerial) connector does not fit.





Support site

If you have any questions or for the latest support information on this product, please visit the web site below:

Sitio Web de soporte técnico en línea

Para resolver cualquier duda u obtener la información más reciente sobre el soporte técnico de este producto, visite el siguiente sitio Web:

<https://www.sony.com/am/support>

For more information on this model, refer to XAV-AX5110 on the support sites.

LaES



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