

## Digital Media Player

Operating Instructions

GB

Manual de instrucciones

ES

To switch the FM/AM tuning step, see page 9.

For the connection/installation, see page 27.

Para cambiar el paso de sintonización de FM/AM, consulte la página 9.

Para la conexión/instalación, consulte la página 30.



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

For safety, be sure to install this unit in the dashboard of the car as the top of the unit becomes hot during use.  
For details, see "Connection/Installation" (page 27).

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

Complies with  
IMDA Standards  
DB00353

(For Singapore models only)



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



**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.

**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.

## Important notice

### 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.

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.

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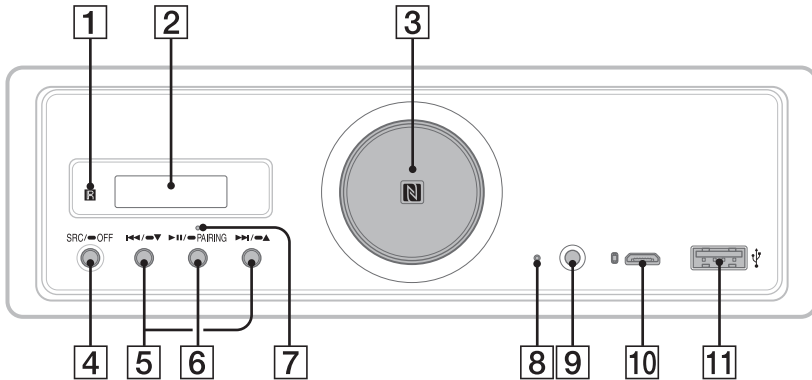
### Connection/Installation

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For details on the software used by this unit, see **"Important information on software"** on the pages at the end of these operating instructions.

# Guide to Parts and Controls

## Main unit



- In this manual, procedures are explained mainly for the remote commander unless otherwise specified.
- Available buttons light up depending on the selected source.

### 1 Receptor for the remote commander

### 2 Display window

### 3 Volume dial

Rotate to adjust the volume.

#### N-Mark

Touch with an NFC compatible smartphone to make a Bluetooth® connection.

### 4 SRC (source)

Turn on the power.  
Change the source.

#### OFF

Press and hold for 1 second to turn the source off and display the clock.  
Press and hold for more than 2 seconds to turn off the power and the display.  
If the unit is turned off and the display disappears, operation by the remote commander is not available.

### 5 ◀◀/▶▶ (prev/next)

USB1/USB2: Skip tracks.

Tuner: Receive stored radio stations.

#### ▼/▲ (album -/+)

USB1/USB2: Press and hold to skip albums.

Tuner: Press and hold to tune in radio station automatically.

### 6 ▶|| (play/pause)

USB1/USB2: Start/pause playback. While playback is paused, the illumination of the unit flashes.

Tuner: Change the band.

#### PAIRING (page 10)

Press and hold for 2 seconds to enter the BLUETOOTH pairing standby mode.

### 7 BLUETOOTH indicator

### 8 Reset button (page 9)

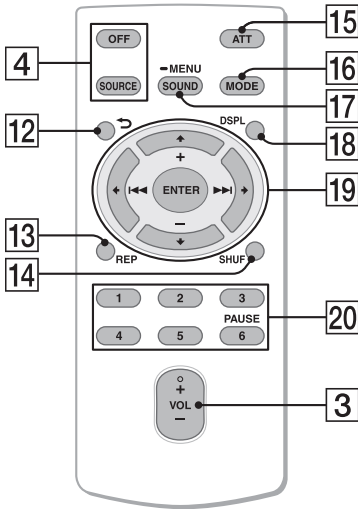
### 9 AUX input jack

### 10 USB micro-B port (for USB-DAC)

### 11 USB type-A port (for USB1)

Charging the connected device (USB High-charge) is also supported.

## RM-X261 Remote commander



### 19 ←/↑/↓/→

Select a setup item, etc.

### ENTER

Enter the selected item.

### ⏪/⏩ (prev/next)

USB1/USB2: Skip tracks.

Tuner: Tune in the radio station automatically.

Press and hold to tune manually.

### +/- (album +/-)

USB1/USB2: Skip albums.

Tuner: Receive stored radio stations.

### 20 Number buttons (1 to 6)

Receive stored radio stations.

Press and hold to store stations.

### PAUSE

Remove the insulation film before use.



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

### 12 ↶ (back)

Return to the previous display.

### 13 REP (repeat)

### 14 SHUF (shuffle)

### 15 ATT (attenuate)

Attenuate the sound. Press again to cancel the attenuation.

### 16 MODE (page 12)

### 17 SOUND\*1\*2

Open the sound menu directly.

### —MENU\*1

Press and hold to open the setup menu.

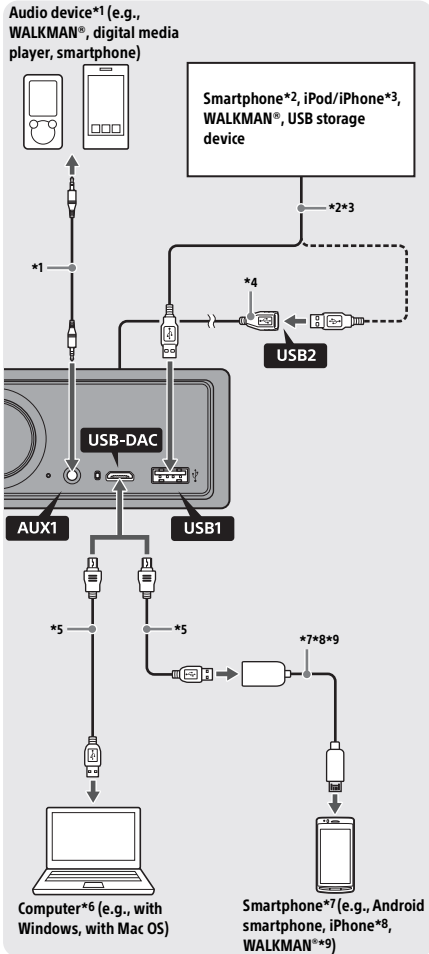
\*1 Not available when the BT phone is selected.

\*2 Not available while the optical output is enabled, or the source is off and the clock is displayed.

### 18 DSPL (display)

Change display items.

# Guide to Audio Device Connection



- \*1 Audio device with a stereo mini jack. When connecting, a stereo mini plug (not supplied) is required. Do not use any type of plug that interferes with the instrument panel of the car.
- \*2 Only a smartphone in MSC mode is available. When connecting a smartphone, an appropriate USB cable (not supplied) is required.
- \*3 When connecting an iPod/iPhone, a USB connection cable for iPod/iPhone (not supplied) is required.
- \*4 Use the USB extension cable (supplied).
- \*5 Use an appropriate USB cable (USB-A plug to USB micro B plug) (not supplied).
- \*6 To play High-Resolution Audio files, using the audio playback software "Hi-Res Audio Player" or "Media Go" is recommended.  
When using "Hi-Res Audio Player":  
For Windows, installing the dedicated driver to your computer is required. For Mac OS, no driver is required.  
When using "Media Go":  
For Windows, installing the dedicated driver to your computer is required. For Mac OS, "Media Go" is not supported.  
For further details, visit the support site on the back cover.
- \*7 When connecting an Android smartphone, a USB OTG cable (not supplied) is required. Depending on the smartphone, downloading the dedicated app for playing High-Resolution Audio files is required.
- \*8 When connecting an iPhone/iPod, an exclusive cable (not supplied) is required. This cable may not be available in your country or region.
- \*9 Only a WALKMAN® supporting digital output is available. When connecting the WALKMAN®, a USB conversion cable WMC-NWH10 (not supplied) is required. These may not be available in your country or region.

Design and specifications are subject to change without notice.

## For your safety

To prevent a traffic accident, make sure that the connected cables do not interfere with the air-bag system or driving operation.

## Playable High-Resolution Audio file formats

Playable file formats, sampling frequencies and bit depths differ depending on whether the USB type-A port or the USB micro-B port is used.

	USB-DAC (USB micro-B port)	USB1 (USB type-A port, Front)	USB2 (USB type-A port, Rear)
DSD	ASIO Native: 2.8 MHz/1 bit, 5.6 MHz/1 bit, 11.2 MHz/1 bit* DoP: 2.8 MHz/1 bit, 5.6 MHz/1 bit	-	-
PCM	Max. 192 kHz/24 bit	-	-
DSF	-	2.8 MHz/1 bit (PCM convert), 5.6 MHz/1 bit (PCM convert)	2.8 MHz/1 bit (PCM convert), 5.6 MHz/1 bit (PCM convert)
DSDIFF	-	2.8 MHz/1 bit (PCM convert), 5.6 MHz/1 bit (PCM convert)	2.8 MHz/1 bit (PCM convert), 5.6 MHz/1 bit (PCM convert)
WAV	-	192/176.4/96/88.2/48/44.1 kHz (24 bit), 192/176.4/96/88.2 kHz (16 bit)	192/176.4/96/88.2/48/44.1 kHz (24 bit), 192/176.4/96/88.2 kHz (16 bit)
AIFF	-	192/176.4/96/88.2/48/44.1 kHz (24 bit), 192/176.4/96/88.2 kHz (16 bit)	192/176.4/96/88.2/48/44.1 kHz (24 bit), 192/176.4/96/88.2 kHz (16 bit)
FLAC	-	192/176.4/96/88.2/48/44.1 kHz (24 bit), 192/176.4/96/88.2 kHz (16 bit)	192/176.4/96/88.2/48/44.1 kHz (24 bit), 192/176.4/96/88.2 kHz (16 bit)
ALAC	-	192/176.4/96/88.2/48/44.1 kHz (24 bit), 192/176.4/96/88.2 kHz (16 bit)	192/176.4/96/88.2/48/44.1 kHz (24 bit), 192/176.4/96/88.2 kHz (16 bit)

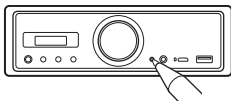
\* Playable only via a WALKMAN® supporting digital output. This WALKMAN® may not be available in your country or region.



## Getting Started

### Resetting the Unit

Before operating the unit for the first time, after replacing the car battery, or changing the connections, you must reset the unit.



#### Note

Pressing the reset button will erase the clock setting and some stored contents.

### Switching the FM/AM Tuning Step

Set the FM/AM tuning step of your country. This setting appears **only while the source is off and the clock is displayed.**

Use the remote commander to perform the following.

- 1 Press and hold MENU, press **↑** or **↓** to select [General], then press ENTER.
- 2 Press **↑** or **↓** to select [Tuner Step], then press ENTER.
- 3 Press **↑** or **↓** to select from [50k/9kHz], [100k/10kHz] or [200k/10kHz], then press ENTER.

### Setting the Clock

Use the remote commander to perform the following.

- 1 Press and hold MENU, press **↑** or **↓** to select [General], then press ENTER.
- 2 Press **↑** or **↓** to select [Clock Adjust], then press ENTER.  
The hour indication flashes.
- 3 Press **↑** or **↓** to set the hour and minute.  
To move the digital indication, press **←** or **→**.
- 4 After setting the minute, press ENTER.  
The setup is complete and the clock starts.

### To display the clock

Press DSPL.

### Preparing a BLUETOOTH Device

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

There are two ways for connecting the BLUETOOTH device:

- **One-touch connection for the NFC compatible BLUETOOTH device.**
- **Manual connection.**

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

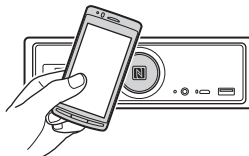
### Connecting with a Smartphone by One touch (NFC)

By touching the N-Mark on the unit with an NFC\* compatible smartphone, the unit is paired and connected with the smartphone automatically.

\* NFC (Near Field Communication) is a technology enabling short-range wireless communication between various devices, such as mobile phones and IC tags. Thanks to the NFC function, data communication can be achieved easily just by touching the relevant symbol or designated location on NFC compatible devices.

For a smartphone with Android™ OS 4.0 or lower installed, downloading the app "NFC Easy Connect" available at Google Play™ is required. The app may not be downloadable in some countries/regions.

- 1 Activate the NFC function on the smartphone.  
For details, refer to the operating instructions supplied with the smartphone.
- 2 Touch the N-Mark part of the unit with the N-Mark part of the smartphone.



Make sure the BLUETOOTH indicator on the unit lights up.

### To disconnect by One touch

Touch the N-Mark part of the unit with the N-Mark part of the smartphone again.

#### Notes

- When making the connection, handle the smartphone carefully to prevent scratches.
- One touch connection is not possible when the unit is already connected to another NFC compatible device. In this case, disconnect the other device, and make connection with the smartphone again.

## 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 and hold **▶||** on the unit for more than 2 seconds.

Alternatively, press and hold MENU on the remote commander, select [BT Setting] → [Pairing], then press ENTER.

The BLUETOOTH indicator on the unit flashes (while the unit is in pairing standby mode).

**3** Perform pairing on the BLUETOOTH device so it detects this unit.

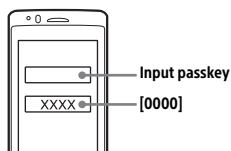
**4** Select [RSX-GS9] shown in the display of the BLUETOOTH device.

If your model name does not appear, repeat from step 2.



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

\* Passkey may be called "Passcode," "PIN code," "PIN number" or "Password," etc., depending on the device.



When paired, the BLUETOOTH indicator on the unit stays lit.

**6** Select this unit on the BLUETOOTH device to establish the BLUETOOTH connection.

#### Note

While connecting to a BLUETOOTH device, this unit cannot be detected from another device. To enable detection, enter the pairing mode and search for this unit from another device.

#### To start playback

For details, see "Playing a BLUETOOTH Device" (page 13).

#### To cancel pairing

Perform step 2 to cancel the pairing mode after this unit and the BLUETOOTH device are paired.

## 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 and hold MENU on the remote commander, select [BT Setting] → [BT Signal], then press ENTER.

Make sure the BLUETOOTH indicator on the unit lights up.

**2** Activate the BLUETOOTH function on the BLUETOOTH device.

**3** Operate the BLUETOOTH device to connect to this unit.

### To connect the last-connected device from this unit

Activate the BLUETOOTH function on the BLUETOOTH device.  
Press SOURCE (SRC), then select [BT Phone]\* or [BT Audio].

Press ENTER to connect with the cellular phone, or PAUSE to connect with the audio device.

\* Available only when the "Sony | Music Center" connection is established.

#### Note

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

#### Tip

With BLUETOOTH signal on: when the ignition is turned on, this unit reconnects automatically to the last-connected cellular phone.

### To install the microphone

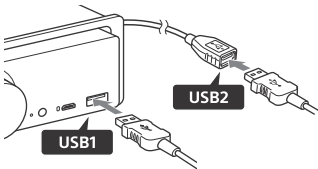
For details, see "Installing the microphone" (page 30).

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## Connecting a USB Device

- 1 Turn down the volume on the unit.
- 2 Connect the USB device to the USB type-A port.

To connect an iPod/iPhone, use the USB connection cable for iPod/iPhone (not supplied).

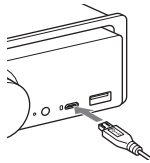


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## Connecting a High-Resolution USB Audio Supported Device

- 1 Turn down the volume on the unit.
- 2 Connect a High-Resolution USB Audio supported computer, smartphone or digital media player to the USB micro-B port.

For details, see "Guide to Audio Device Connection" (page 7).

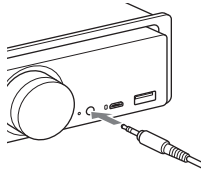


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## Connecting Other Portable Audio Device

- 1 Turn down the volume on the unit.
- 2 Connect the portable audio device to the AUX input jack (stereo mini jack) on the unit with a connecting cord (not supplied)\*.

\* Do not use any type of plug that interferes with the instrument panel of the car.



When making the high level input connection, see "AUX2" in "Connection" for details (page 28).

- 3 Press SRC to select [AUX1].  
Alternatively, select [AUX2] for the high level input connection.

### To match the volume level of the connected device to other sources

Start playback of the portable audio device at a moderate volume, and set your usual listening volume on the unit.  
Press and hold MENU, then select [Sound] → [AUX Level] (page 18).

## Listening to the Radio

### Listening to the Radio

Tuning step setting is required (page 9).

To listen to the radio, press SOURCE (SRC) to select [Tuner].

Use the remote commander to perform the following.

#### Storing automatically (BTM)

- 1 Press MODE to change the band (FM1, FM2, FM3, AM1 or AM2).  
Alternatively, press ►|| on the unit to change the band.
- 2 Press and hold MENU, press ↑ or ↓ to select [General], then press ENTER.
- 3 Press ↑ or ↓ to select [BTM], then press ENTER.  
The unit stores stations in order of frequency on the number buttons.

#### Tuning

- 1 Press MODE to change the band (FM1, FM2, FM3, AM1 or AM2).  
Alternatively, press ►|| on the unit to change the band.
- 2 Perform tuning.  
To tune manually  
Press and hold ◀ or ▶ to locate the approximate frequency, then press ◀ or ▶ repeatedly to fine adjust to the desired frequency.  
To tune automatically  
Press ◀ or ▶. (Alternatively, press and hold ◀◀ or ▶▶ on the unit for more than 1 second.)  
Scanning stops when the unit receives a station.

#### Storing manually

- 1 While receiving the station that you want to store, press and hold a number button (1 to 6) until [MEM] appears.

#### Receiving the stored stations

- 1 Select the band, then press a number button (1 to 6).  
Alternatively, press ◀◀ or ▶▶ on the unit.

## Playback

### Playing a USB Device

In these Operating Instructions, “iPod” is used as a general reference for the iPod functions on an iPod and iPhone, unless otherwise specified by the text or illustrations.

For details on the compatibility of your iPod, see “About iPod” (page 20) or visit the support site on the back cover.

MSC (Mass Storage Class)-type USB devices (such as a USB flash drive, digital media player, Android smartphone) compliant with the USB standard can be used.

Depending on the digital media player or Android smartphone, setting the USB connection mode to MSC is required. (A USB device in MTP mode is not available.)

#### “Music” folder and its location (when connecting the USB device)

Be sure to store audio files in a folder named “Music”, and organize the folder directly under the root directory of the USB device. Otherwise the unit will not recognize audio files on the device.

#### Notes

- For details on the compatibility of your USB device, visit the support site on the back cover.
- During USB playback, fast-forward/fast-reverse operation is not supported.
- The unit starts reading the file structure of the connected device when playback is performed.
- [\*] appears on the display while the unit is reading the file structure of the connected device. While [\*] is displayed, a track or album (folder) cannot be skipped.
- During USB playback via the USB type-A port, a DSD file on the connected device is converted into PCM format.
- Playback of the following files is not supported.  
WMA/AAC:
  - copyright-protected files
  - DRM (Digital Rights Management) filesWMA:
  - lossless compression files
  - multi-channel audio files
- As a guide, recognizing a total of 2,000 audio files in 200 folders on the USB device takes about 150 seconds.
- The unit may take some time to recognize the USB device if its file organization has been updated.
- Before connecting the USB device, be sure to select USB1 or USB2. If a USB device with updated file structure is connected while the unit and the display are off, or without selecting USB1 or USB2, the unit will not recognize the latest file organization of the device.

## 1 Connect a USB device to the USB type-A port (page 11).

Playback starts. (Depending on the file organization, playback may take time to start.)

## 2 Adjust the volume on this unit.

### To pause playback

Press **▶II**.

### To remove the device

Stop playback, then remove the device.

### To display the sampling frequency and bit depth of the audio file being played

Press **DSPL** during playback.

#### Notes

- When DSD playback is performed via USB1 or USB2, the sampling frequency and bit depth before converting to PCM format are displayed.
- When an iPod/iPhone is connected to USB1 or USB2, the sampling frequency and bit depth are not displayed.
- In the track name display, only alphanumeric characters are displayed.

### Caution for iPhone

When you connect an iPhone via USB, phone call volume is controlled by the iPhone, not the unit. Do not inadvertently increase the volume on the unit during a call, as a sudden loud sound may result when the call ends.

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## Playing a High-Resolution USB Audio Supported Device

For details on the compatibility of your High-Resolution USB Audio device and the DSD supported audio playback software or app, see the support site on the back cover.

### For your safety

- Do not operate the High-Resolution USB Audio supported device while driving.
- Before driving your car, make sure the High-Resolution USB Audio supported device will not play loudly during playback (especially during native DSD playback).

## 1 Connect a High-Resolution USB Audio supported device to the USB micro-B port (page 11).

## 2 Operate the device to start playback.

## 3 Adjust the volume on this unit.

### To stop playback

Operate the device to stop playback. The controls on the unit or the remote commander do not work.

### To remove the device

Stop playback, then remove the device.

### To display the sampling frequency and bit depth of the audio file being played

Press **DSPL** during playback.

For example, the information appears as follows:

[192/24]: 192 kHz/24 bit

[DSD 11.2MHz]: 11.2 MHz/1 bit

#### Notes

- Gapless playback is performed when the sampling frequency and bit depth are identical to those of the next or previous track.
  - If the displayed sampling frequency and bit depth are not appropriate, check the settings of the device and its connection.
  - For a DSD file on the device connected via the USB micro-B port, native DSD playback is performed. During playback, make sure that the native DSD playback on the High-Resolution USB Audio supported device performs properly. Corresponding data interface, sampling frequency and bit depth:
    - PCM:
      - Max. 192 kHz/24 bit
    - DSD:
      - ASIO Native: 2.8 MHz/1 bit, 5.6 MHz/1 bit, 11.2 MHz/1 bit\*
      - DoP: 2.8 MHz/1 bit, 5.6 MHz/1 bit
- \* Playable only via a WALKMAN® supporting digital output.

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## Playing a BLUETOOTH Device

You can play contents on a connected device that supports BLUETOOTH A2DP (Advanced Audio Distribution Profile). Using an LDAC-supported device is recommended.



## 1 Make BLUETOOTH connection with the audio device (page 9).

## 2 Press **SRC** to select [BT Audio]. Alternatively, press **SOURCE** on the remote commander.

## 3 Operate the audio device to start playback.

## 4 Adjust the volume on this unit.

#### Notes

- Even if the source is changed on this unit, playback of the audio device does not stop.
- [BT Audio] does not appear in the display while running the "Sony | Music Center" application via the BLUETOOTH function.

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

Start playback of the BLUETOOTH audio device at a moderate volume, and set your usual listening volume on the unit.

Press and hold MENU, then select [BT Setting] → [BTA Level] (page 18).

## To apply the SBC codec only

Press and hold MENU on the remote commander, then set [Audio Codec] in [BT Setting] to [SBC] (page 18).

---

## Searching and Playing Tracks

Use the remote commander to perform the following.

For the iPod, repeat play and shuffle play are not available.

---

### Repeat play and shuffle play

#### 1 During USB1 or USB2 playback, press REP or SHUF repeatedly to select the desired play mode.

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

Repeat play mode:

- [Repeat Track] plays the track repeatedly.
- [Repeat Album] plays tracks in the album (folder) repeatedly.
- [Repeat OFF] cancels repeat play.

Shuffle play mode:

- [Shuffle Device] plays all tracks in the “Music” folder in random order.
- [Shuffle OFF] cancels shuffle play.

#### Notes

- During repeat play, shuffle play mode cannot be selected. During shuffle play, only [Repeat Track] can be selected, and [Repeat Album] cannot be selected.
- [Shuffle Device] is only available when repeat play is off.
- When shuffle play is performed or canceled, playback starts from the first track in the “Music” folder.
- While shuffle play is performed with [Repeat Track] selected, pressing ►► will cancel [Repeat Track] and restart shuffle play from the first track in the “Music” folder.
- During shuffle play, the list display on “Sony | Music Center” is not available. To enable the list display, cancel shuffle play mode.

---

## Handsfree Calling (via BLUETOOTH only)

To use a cellular phone, connect it with this unit. For details, see “Preparing a BLUETOOTH Device” (page 9). Only while the “Sony | Music Center” connection is established, [BT Phone] becomes available when selecting the source.



Use the controls on the unit to perform the following.

---

## Receiving a Call

### 1 Press any button when a call is received with a ringtone.

The phone call starts.

#### Note

The ringtone and talker’s voice are output only from the audio device connected to FRONT AUDIO OUT.

#### To reject the call

Press and hold the following button:

- any button other than SRC for 2 seconds.
- SRC for 1 to 2 seconds.

#### To end the call

Press SRC.

---

## Making a Call

You can make a call via “Sony | Music Center” only. For details, see “Sony | Music Center with iPhone/Android smartphone” (page 15).

---

## Available Operations during Call

#### To adjust the ringtone volume

Rotate the volume dial while receiving a call.

#### To adjust the talker’s voice volume

Rotate the volume dial during a call.

#### To adjust the volume for the other party (MIC gain adjustment)

Press ◀◀ during a call.

Adjustable volume levels: [MIC High], [MIC Low], [MIC Middle].

### To reduce echo and noise (Echo Canceler/ Noise Canceler Mode)

Press ►► during a call.

Settable mode: [ECNC 1], [ECNC 2].

### To switch between hands-free mode and handheld mode

During a call, press ►|| to switch the phone call audio between the unit and cellular phone.

#### Notes

- Depending on the cellular phone, this operation may not be available.
- In the caller name display, only alphanumeric characters are displayed.

## Useful Functions

### Sony | Music Center with iPhone/Android smartphone

Downloading the latest version of “Sony | Music Center” application is required from the App Store for iPhone or from Google Play for Android smartphone.

#### Notes

- For your safety, follow your local traffic laws and regulations, and do not operate the application while driving.
- “Sony | Music Center” is an app for controlling Sony audio devices which are compatible with “Sony | Music Center”, by your iPhone/Android smartphone.
- What you can control with “Sony | Music Center” varies depending on the connected device.
- To make use of “Sony | Music Center” features, see the details on your iPhone/Android smartphone.
- For further details on “Sony | Music Center,” visit the following [http://vssupport.sony.net/en\\_ww/help/](http://vssupport.sony.net/en_ww/help/)
- Visit the website below and check the compatible iPhone/Android smartphone models.  
For iPhone: visit the App Store  
For Android smartphone: visit Google Play

### Establishing the Sony | Music Center connection

**1** Make the BLUETOOTH connection with iPhone/Android smartphone (page 9).

**2** Launch the “Sony | Music Center” application.

Connection to iPhone/Android smartphone starts.

For details on the operations on iPhone/Android smartphone, see the help of the application.

#### If the device number appears

Make sure that the number is displayed (e.g., 123456), then select [Yes] on the iPhone/Android smartphone.

### Selecting the source or application

You can operate to select the desired source or application on iPhone/Android smartphone.

#### To select the source

Press SOURCE repeatedly.

#### Note

While “Settings” is selected, the controls except for the volume on the unit and remote commander do not work. Operate your iPhone/Android smartphone.

### To display the source list

Tap the source list icon on the "Sony | Music Center" application.

### Announcement of various information by voice guide (Android smartphone only)

When SMS, Twitter/Facebook/Calendar notifications, etc., are received, they are automatically announced through the audio device connected to FRONT AUDIO OUT.

For details on settings, refer to the help of the application.

### Replying a message of SMS (Android smartphone only)

You can reply a message.

- 1 Tap the reply icon on the "Sony | Music Center" application.  
The message input display appears.
- 2 Input a reply message by voice recognition.  
The list of message candidates appears.
- 3 Tap the desired message.  
The message is sent out.

For details, refer to the help of the application.

### Making sound and display settings

You can adjust the settings relating to sound and display via iPhone/Android smartphone.

For details on settings, refer to the help of the application.

## Settings

### Basic Setting Operation

You can set items in the following setup categories: General setup (General), Sound setup (Sound), BLUETOOTH setup (BT Setting), Sony | Music Center setup (Sony APP)  
(While the BT phone is selected, only the BLUETOOTH setup is available.)

Use the remote commander to perform the following.

- 1 Press and hold MENU, press **↑** or **↓** to select the setup category, then press ENTER.  
The items that can be set differ depending on the source and settings.
- 2 Press **↑** or **↓** to select the options, then press ENTER.

#### To return to the previous display

Press **↶**.

### General Setup (General)

#### Clock Adjust (page 9)

#### Dimmer

Dims the display: [ON], [OFF], [Auto].  
([Auto] is available only when the illumination control lead is connected, and turn on the head light).

#### Brightness

Adjusts the display brightness. The brightness level is adjustable: [1] – [10].  
The brightness setting is stored and applied when the dimmer function is activated or deactivated.

#### Optical Out

Selects the optical output setting: [OFF], [48kHz], [96kHz].  
(The volume control on the unit does not work when set to [48kHz] or [96kHz].)

#### BTM (best tuning memory) (page 12)

(Available only when the tuner is selected.)



---

## Black Out

Turns off the illumination automatically for any source (e.g., during radio reception, etc.) if no operation is performed for 5 seconds: [ON], [OFF].

To turn the light back on, press any button on the unit or the remote commander.

---

## Tuner Step (page 9)

(Available only while the source is off and the clock is displayed.)

---

## Firmware

(Available only while the source is off and the clock is displayed.)

Checks/updates the firmware version. For details, visit the support site on the back cover.

### Version

Displays current firmware version.

### Update

Enters firmware update process: [NO], [YES].

Updating the firmware takes a few minutes to complete. During the update, do not turn the ignition to the OFF position.

---

---

# Sound Setup (Sound)

This setup menu can also be opened by pressing SOUND. If [Optical Out] is set to [48kHz] or [96kHz], this setup menu is not available.

---

## Subwoofer

(Automatically set to [OFF] when [Optical Out] is set to [48kHz] or [96kHz].) (Not available during native DSD playback while USB-DAC is selected.)

### Sub Level\* (subwoofer level)

Adjusts the subwoofer volume level: [+10dB] – [0dB] – [-10dB].

### Sub Phase (subwoofer phase)

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

### LPF Freq (low pass filter frequency)

Selects the subwoofer cut-off frequency: [OFF], [50Hz], [63Hz], [79Hz], [99Hz], [125Hz], [158Hz], [198Hz], [250Hz].

### LPF Slope (low pass filter slope)

Selects the LPF slope (effective only when [LPF Freq] is set to other than [OFF]): [SLP1] (-12dB/oct), [SLP2] (-24dB/oct), [SLP3] (-36dB/oct), [SLP4] (-48dB/oct).

### LPF Mode (low pass filter mode)

Sets the filter mode: [Mono], [Stereo].

### HPF Freq (high pass filter frequency)

Selects the front/rear speaker cut-off frequency: [OFF], [50Hz], [63Hz], [79Hz], [99Hz], [125Hz], [158Hz], [198Hz], [250Hz].

\* Available even if [Optical Out] is set.

---

## HPF Slope (high pass filter slope)

Selects the HPF slope (effective only when [HPF Freq] is set to other than [OFF]): [SLP1] (-12dB/oct), [SLP2] (-24dB/oct), [SLP3] (-36dB/oct), [SLP4] (-48dB/oct).

---

## Sub DSD (subwoofer DSD)

(Available during native DSD playback while USB-DAC is selected.)

### LPF Freq (low pass filter frequency)

Selects the subwoofer cut-off frequency: [OFF], [150Hz].

### LPF Mode (low pass filter mode)

Sets the filter mode: [Mono], [Stereo].

---

## Pos Custom (position custom)

Sets [Custom] of [Pos Preset].

(Available when any source except for BT phone is selected.) (Automatically set to [OFF] when [Optical Out] is set to [48kHz] or [96kHz].)

### Front Left, Front Right, Rear Left, Rear Right, Subwoofer

Sets the distance from your desired position to the speaker.

Adjustable range: [0] – [350] cm (0 – 11.5 ft)

([Subwoofer] is not available during native DSD playback while USB-DAC is selected.)

---

## Pos Preset (position preset)

### F/R Pos (front/rear position)

Simulates a natural sound field by delaying the sound output from speakers to suit your position:

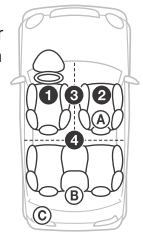
- ① [Front Left], ② [Front Right], ③ [Center Front], ④ [ALL] (center of your car), [Custom]\*1 (position set in [Pos Custom]), [OFF] (no position set)

### Adjust Pos\*2 (adjust position)

Fine-tunes the listening position setting: [+3] – [0] – [-3].

### Subwoofer\*2 (subwoofer position)

Ⓐ [Near], Ⓑ [Normal], Ⓒ [Far]



\*1 Available when [Pos Custom] is set.

\*2 Does not appear when [F/R Pos] is set to [OFF].

---

## EQ10 Preset

Selects an equalizer curve from 10 equalizer curves or off: [OFF], [R & B], [Rock], [Pop], [Dance], [Hip-Hop], [Electronica], [Jazz], [Regueton], [Salsa], [Custom] (equalizer curve set by "Sony | Music Center").

The equalizer curve setting can be memorized for each source.

(Available when any source except for BT phone is selected.) (Automatically set to [OFF] when [Optical Out] is set to [48kHz] or [96kHz].)

(Not available during native DSD playback while USB-DAC is selected.)

---

---

**Balance**

Adjusts the sound balance: [R-15] – [Center] – [L-15].  
(Available when any source except for BT phone is selected.) (Automatically set to [OFF] when [Optical Out] is set to [48kHz] or [96kHz].)

---

**Fader**

Adjusts the relative level: [F-15] – [Center] – [R-15].  
(Available when any source except for BT phone is selected.) (Automatically set to [OFF] when [Optical Out] is set to [48kHz] or [96kHz].)

---

**Loudness**

Reinforces bass and treble for clear sound at low volume levels: [OFF], [ON].  
(Not available during native DSD playback while USB-DAC is selected.)

---

**DSEE HX** (digital sound enhancement engine HX)

Improves digitally compressed sound by restoring high frequencies lost in the compression process.  
This setting can be memorized for each source other than the tuner or AUX.  
Selects the DSEE HX mode: [OFF], [ON].  
(Available only when USB1, USB2, USB-DAC or BT Audio is selected.) (Automatically set to [OFF] when [Optical Out] is set except for [OFF].) (Not available during native DSD playback while USB-DAC is selected.)

---

**AUX Level**

Adjusts the volume level for each connected auxiliary device: [+18dB] – [0dB] – [-8dB].  
This setting negates the need to adjust the volume level between sources.

---

## BLUETOOTH Setup (BT Setting)

---

**BT Signal** (BLUETOOTH signal) (page 10)  
Activates/deactivates the BLUETOOTH function.

---

**Pairing** (BLUETOOTH pairing) (page 10)

---

**BTA Level** (BLUETOOTH audio level)  
Adjusts the volume level for each connected BLUETOOTH device: [+6dB] – [0dB] – [-6dB]. This setting negates the need to adjust the volume level between sources.

---

**Audio Codec**  
Selects the BLUETOOTH audio codec type: [AUTO] (LDAC, AAC, SBC), [SBC].  
(Not available via “Sony | Music Center”.)

---

**Auto Answer**

Sets this unit to answer an incoming call automatically: [OFF], [3sec], [10sec].

---

**Ring Tone**

Selects whether this unit or the connected cellular phone outputs the ringtone: [TONE 1] (this unit), [TONE 2] (cellular phone).

---

**BT Initialize**

Initializes all the BLUETOOTH related settings (pairing information, device information, etc.): [NO], [YES].  
When disposing the unit, initialize all the settings.

---

## Sony | Music Center Setup (Sony APP)

---

**Auto Launch**

Activates the “Sony | Music Center” auto launch: [ON], [OFF].  
When [ON] is selected, “Sony | Music Center” will automatically connect after the BLUETOOTH connection is complete.

---

**Connect** (page 15)

Establish and terminate “Sony | Music Center” function (connection).

---

## Optical output setting and available sound settings

Available sound settings differ depending on the optical output setting and the selected source.

	Optical Out	Tuner	USB1 (front), USB2 (rear)	USB-DAC (PCM)	USB-DAC (DSD)	AUX1 (front)	AUX2 (High level input)	BT Audio	BT Phone
Subwoofer	OFF	✓	✓	✓	–	✓	✓	✓	–
	48 kHz, 96 kHz	–	–	–	–	–	–	–	–
Sub DSD	OFF	–	–	–	✓ (OFF, 150 Hz)	–	–	–	–
	48 kHz, 96 kHz	–	–	–	–	–	–	–	–
Pos Custom	OFF	✓	✓	✓	✓*	✓	✓	✓	–
	48 kHz, 96 kHz	–	–	–	–	–	–	–	–
Pos Preset	OFF	✓	✓	✓	✓	✓	✓	✓	–
	48 kHz, 96 kHz	–	–	–	–	–	–	–	–
EQ10 Preset	OFF	✓	✓	✓	–	✓	✓	✓	–
	48 kHz, 96 kHz	–	–	–	–	–	–	–	–
Balance	OFF	✓	✓	✓	✓	✓	✓	✓	–
	48 kHz, 96 kHz	–	–	–	–	–	–	–	–
Fader	OFF	✓	✓	✓	✓	✓	✓	✓	–
	48 kHz, 96 kHz	–	–	–	–	–	–	–	–
Loudness	OFF	✓	✓	✓	–	✓	✓	✓	–
	48 kHz, 96 kHz	–	–	–	–	–	–	–	–
DSEE HX	OFF	–	✓ Max. 48 kHz	✓ Max. 48 kHz	–	–	–	✓ Max. 48 kHz	–
	48 kHz, 96 kHz	–	–	–	–	–	–	–	–

\* Only [Subwoofer] in [Pos Custom] is not available.

## Additional Information

### Updating the Firmware

To update the firmware, visit the support site on the back cover, then follow the online instructions. Updating the firmware takes a few minutes to complete. During the update, do not turn the ignition to the OFF position.

#### Note

Using a USB device (not supplied) is required for updating the firmware. Store the updater in the USB device, and connect the device to the USB1 (front) port, then perform the update operation. The USB2 (rear) port cannot be used for the update.

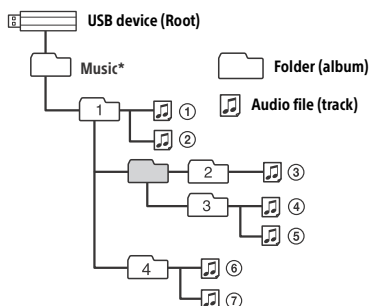
### Precautions

- Cool off the unit beforehand if your car has been parked in direct sunlight.
- Do not leave audio devices brought in inside the car, or it may cause malfunction due to high temperature in direct sunlight.
- Power antenna (aerial) extends automatically depending on the type of car.
- When using the unit in a cold area, the rotation of the volume dial may feel a little heavy.

#### To maintain high sound quality

Do not splash liquid onto the unit.

### Playback order of audio files



\* For the name of "Music" folder under the root directory, there are no restrictions for using upper or lower case letters. ("Music", "music" and "MUSIC" are valid.)

### About iPod

- You can connect to the following iPod models. Update your iPod devices to the latest software before use.

Compatible iPhone/iPod models

Compatible Model	Bluetooth®	USB
iPhone 6	✓	✓
iPhone 6 Plus	✓	✓
iPhone 5s	✓	✓
iPhone 5c	✓	✓
iPhone 5	✓	✓
iPhone 4s	✓	✓
iPhone 4	✓	✓
iPhone 3GS	✓	✓
iPhone 3G		✓
iPod touch (5th generation)	✓	✓
iPod touch (4th generation)	✓	✓
iPod touch (3rd generation)		✓
iPod touch (2nd generation)		✓
iPod classic		✓
iPod nano (7th generation)		✓
iPod nano (6th generation)		✓
iPod nano (5th generation)		✓
iPod nano (4th generation)		✓
iPod nano (3rd generation)		✓

- 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.

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

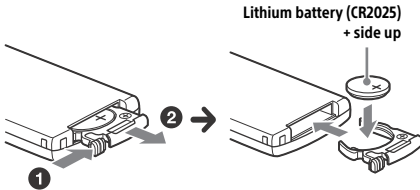
# Maintenance

## Replacing the lithium battery (CR2025) of the remote commander

When the battery becomes weak, the range of the remote commander becomes shorter.

### CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.



### Note on the lithium battery

Keep the lithium battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.

### WARNING

Battery may explode if mistreated. Do not recharge, disassemble, or dispose of in fire.

# Specifications

## Tuner section

### FM

Tuning range:

- 87.5 – 108.0 MHz (at 50 kHz step)
- 87.5 – 108.0 MHz (at 100 kHz step)
- 87.5 – 107.9 MHz (at 200 kHz step)

FM tuning step:

- 50 kHz/100 kHz/200 kHz switchable

Antenna (aerial) terminal:

- External antenna (aerial) connector

Intermediate frequency:

- FM CCIR: -1,956.5 to -487.3 kHz and +500.0 to +2,095.4 kHz

Usable sensitivity: 8 dBf

Selectivity: 75 dB at 400 kHz

Signal-to-noise ratio: 73 dB

Separation: 50 dB at 1 kHz

Frequency response: 20 – 15,000 Hz

### AM

Tuning range:

- 531 – 1,602 kHz (at 9 kHz step)
- 530 – 1,710 kHz (at 10 kHz step)

AM tuning step:

- 9 kHz/10 kHz switchable

Antenna (aerial) terminal:

- External antenna (aerial) connector

Sensitivity: 26  $\mu$ V

## USB Player section

Interface: USB (High-speed)

Maximum current: 1.5 A (USB BC1.2 compliant)

The maximum number of recognizable folders: 997 (including the "Music" folder under the root directory)

The maximum number of recognizable tracks: 10,000

Corresponding codec:

MP3 (.mp3):

- 16/22.05/24/32/44.1/48 kHz, 16 – 320 kbps (CBR/VBR)

AAC (.m4a, .mp4, .3gp):

- 16/22.05/24/32/44.1/48/88.2/96 kHz, 16 – 320 kbps (CBR/VBR)

WMA (.wma):

- 32/44.1/48 kHz, 16 – 320 kbps (CBR/VBR)

WAV (.wav):

- 16/22.05/24/32/44.1/48/88.2/96/176.4/192 kHz (16/24 bit)

AIFF (.aiff, .aif):

- 32/44.1/48/88.2/96/176.4/192 kHz (16/24 bit)

FLAC (.flac):

- 16/22.05/24/32/44.1/48/88.2/96/176.4/192 kHz (16/24 bit)

ALAC (.m4a):

- 16/22.05/24/32/44.1/48/88.2/96/176.4/192 kHz (16/24 bit)

DSD (DSF/DSDIFF)\* (.dsf, .dff):

- 2.8 MHz (1 bit), 5.6 MHz (1 bit)

\* via the USB type-A port, PCM conversion is performed during playback.

## USB-DAC Player section

Interface: USB micro B

Signal-to-noise ratio: 117 dB (at 1 kHz)

Frequency response: 20 Hz – 90 kHz (-3 dB)

Harmonic distortion: 0.007 % or less (at 1 kHz)

Corresponding data interface, sampling frequency and bit depth:

PCM: Max. 192 kHz/24 bit

DSD:

- ASIO Native: 2.8 MHz/1 bit, 5.6 MHz/1 bit, 11.2 MHz/1 bit\*
- DoP: 2.8 MHz/1 bit, 5.6 MHz/1 bit

\* Playable only via a WALKMAN® supporting digital output.

## Wireless Communication

Communication System:

BLUETOOTH Standard version 3.0

Output:

BLUETOOTH Standard Power Class 2  
(Max. +4 dBm)

Maximum communication range:

Line of sight approx. 7 m (23 ft)\*1

Frequency band:

2.4 GHz band (2.4000 – 2.4835 GHz)

Modulation method: FHSS

Compatible BLUETOOTH Profiles\*2:

A2DP (Advanced Audio Distribution Profile) 1.3  
AVRCP (Audio Video Remote Control Profile) 1.5  
HFP (Handsfree Profile) 1.6  
SPP (Serial Port Profile)

Corresponding codec:

SBC (.sbc), AAC (.m4a) and LDAC (.ldac)

\*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.

## General

DAC (Digital Audio Converter) device: ES9018S by ESS Technology, Inc.

Outputs:

Audio outputs terminal (FRONT, REAR, SUB)  
Power antenna (aerial)/Power amplifier control terminal (REM OUT)  
Optical output terminal

Inputs:

High level input terminal (3 V – 12 V)  
Remote controller input terminal  
Antenna (aerial) input terminal  
MIC input terminal  
AUX input jack (stereo mini jack)  
USB type-A port (front, rear)  
USB micro-B port

Power requirements: 12 V DC car battery (negative ground (earth))

Rated current consumption: 10 A

Dimensions:

Approx. 178 mm × 50 mm × 167 mm  
(7 1/8 in × 2 in × 6 5/8 in) (w/h/d)

Mounting dimensions:

Approx. 182 mm × 53 mm × 154 mm  
(7 1/4 in × 2 1/8 in × 6 1/8 in) (w/h/d)

Mass: Approx. 1.5 kg (3 lb 3 oz)

Package contents:

Main unit (1)  
Remote commander (1): RM-X261  
Microphone (1)  
Parts for installation and connections (1 set)  
USB cable (1)

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. For details on using the fuse and removing the unit from the dashboard, see "Connection/Installation" (page 27). If the problem is not solved, visit the support site on the back cover.

---

### General

#### **No power is being supplied to the unit.**

- If the unit is turned off and the display disappears, the unit cannot be operated with the remote commander.
  - Turn on the unit by pressing SRC on the unit.

---

#### **No sound or the sound is very low.**

- The position of the fader control [Fader] is not set for a 2-speaker system.
- The volume of the unit and/or connected device is very low.
  - Increase the volume of the unit and connected device.

---

#### **The contents of the memory have been erased.**

- The reset button has been pressed.
  - Store again into the memory.
- The power supply lead or battery has been disconnected or not connected properly.

---

#### **Stored stations and correct time are erased.**

##### **The fuse has blown.**

##### **Makes a 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 in the display window.**

- [Dimmer] (dimmer) is set to [ON] (page 16).
- The display disappears if you press and hold OFF.
  - Press and hold SRC on the unit until the display appears.

---

#### **The display disappears while the unit is operating.**

- [Black Out] (black out) is set to [ON] (page 17).

---

#### **The operation buttons do not function.**

- The connection is not correct.
  - Check the connection of the unit.
    - If the situation does not improve, press reset button (page 9).
      - The contents stored in memory are erased.
      - For your safety, do not reset the unit while you are driving.

---

### Radio reception

#### **Stations cannot be received.**

##### **The sound is hampered by noises.**

- The connection is not correct.
  - If your car has built-in radio antenna (aerial) in the rear/side glass, connect an REM OUT lead (blue/white striped) or accessory power supply lead (red) to the power supply lead of a car's antenna (aerial) booster.
  - Check the connection of the car antenna (aerial).
  - If the auto antenna (aerial) will not extend, check the connection of the power antenna (aerial) control lead.
- The tuning step setting has been erased.
  - Set the tuning step again (page 9).

---

#### **Preset tuning is not possible.**

- The broadcast signal is too weak.

---

### USB device playback

#### **You cannot play items via a USB hub.**

- This unit cannot recognize USB devices via a USB hub.

---

#### **A USB device takes longer to play.**

- The USB device contains many files or a complicated file structure.

---

**The sound is intermittent.**

- The sound may be intermittent at a high-bit-rate.
- DRM (Digital Rights Management) files may not be playable in some cases.

---

**Audio file cannot be played.**

- USB device formatted with file systems other than FAT16, FAT32 or exFAT are unsupported.\*
- \* This unit supports FAT16, FAT32 and exFAT, but some USB device may not support all of these FAT. For details, refer to the operating instruction of each USB device or contact the manufacturer.

---

**You cannot skip to the next or previous track.**

- While [\*] is displayed after connecting the USB device, the unit is busy with reading the file structure of the device. Wait until reading is complete.

---

**The sampling frequency and bit depth are not displayed, or unmatched sampling frequency and bit depth are displayed.**

- Check that the contents on the USB device contain the information on the sampling frequency and bit depth.
- Wait for a while, then press DSPL again. Reading the information may take some time.
- When an iPod/iPhone is connected to USB1 or USB2, the sampling frequency and bit depth are not displayed.

---

**Certain characters of the track name are not displayed.**

- Unsupported characters are used in the track name.

---

**USB DAC playback**

---

**No sound.**

- Check that the High-Resolution USB Audio supported device and the unit are properly connected.
- Check that the settings of the High-Resolution USB Audio supported device are properly made.

---

**The sampling frequency and bit depth are not displayed, or unmatched sampling frequency and bit depth are displayed.**

- Check that the settings of the High-Resolution USB Audio supported device and the audio playback software or application are properly made.
- Wait for a while, then press DSPL again. Reading the information may take some time.
- Depending on the audio playback software or application, the bit depth appears on the display may differ from the actual bit depth of the audio file.

---

**The track name is not displayed.**

- During USB DAC playback, track names are not displayed.

---

**Computer operation**

---

**No sound or the sound is not output properly.**

- The unit does not recognize the computer as a USB device.
  - Restart your computer.
  - Install the driver software “Sony USB Device Driver” on your Windows computer if not installed. For details on the driver software, visit the support site on the back cover. For the installation, refer to the help guide of your computer.
- Turn up the volume of your computer or software.
- The computer is connected to the unit while audio playback software is in use.
  - Restart the audio playback software on the computer.
- Check that the audio playback software being used is compatible with the High-Resolution Audio files. Using “Hi-Res Audio Player” or “Media Go” is recommended. For details, visit the support site on the back cover.
- The computer enters standby, sleep or hibernation mode during playback.
  - Restart the audio playback software on the computer.
- Check that the sound device settings of your computer are properly made. For details, refer to the manual supplied with your computer.
- Cancel the sound attenuation of your computer or the audio playback software.
- Check that the CD-ROM drive supporting the digital reproduction function is used.

---

**NFC function**

---

**One touch connection (NFC) is not possible.**

- The BLUETOOTH signal of this unit is not turned on.
  - Press and hold MENU on the remote commander, select [BT Setting] → [BT Signal], then press ENTER.
- If the smartphone does not respond to the touching.
  - Check that the NFC function of the smartphone is turned on.
  - Move the N-Mark part of the smartphone closer to the N-Mark part on this unit.
  - If the smartphone is in a case, remove it.
- NFC receiving sensitivity depends on the device. If One touch connection with the smartphone fails several times, make BLUETOOTH connection manually.



---

## BLUETOOTH function

---

### The connecting device cannot detect this unit.

- Before the pairing is made, set this unit to pairing standby mode.
  - While connected to a BLUETOOTH device, this unit cannot be detected from another device.
    - Disconnect the current connection and search for this unit from another device.
  - When the device pairing is made, set the BLUETOOTH signal output to on (page 10).
- 

### Connection is not possible.

- The connection is controlled from one side (this unit or BLUETOOTH device), but not both.
    - Connect to this unit from a BLUETOOTH device or vice versa.
- 

### 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.
- 

### No ringtone.

- Adjust the volume by rotating the volume dial while receiving a call.
  - Depending on the connecting device, the ringtone may not be sent properly.
    - Set [Ring Tone] to [TONE 1] (page 18).
  - The ringtone is output only from an audio device connected to FRONT AUDIO OUT.
    - Connect an audio device to FRONT AUDIO OUT of the unit.
- 

### The talker's voice cannot be heard.

- The talker's voice is output only from an audio device connected to FRONT AUDIO OUT.
    - Connect an audio device to FRONT AUDIO OUT of the unit.
- 

### A call partner says that the volume is too low or high.

- Adjust the volume accordingly using mic gain adjustment (page 14).
- 

### Echo or noise occurs in phone call conversations.

- Lower the volume.
  - Set EC/NC Mode to [ECNC 1] or [ECNC 2] (page 15).
  - If the ambient noise other than the phone call sound is loud, try reducing this noise.  
E.g.: If a window is open and road noise, etc., is loud, shut the window. If an air conditioner is loud, lower the air conditioner.
- 

### The phone sound quality is poor.

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

---

### The volume of the connected audio device is low (high).

- Volume level will differ depending on the audio device.
    - Adjust the volume of the connected audio device or this unit.
- 

### The sound skips during playback of a BLUETOOTH audio device.

- Reduce the distance between the unit and the BLUETOOTH audio device.
  - If the BLUETOOTH audio device is stored in a case which interrupts the signal, remove the audio device from the case during use.
  - Several BLUETOOTH devices or other devices which emit radio waves are in use nearby.
    - Turn off the other devices.
    - Increase the distance from the other devices.
  - The playback sound stops momentarily when the connection between this unit and the cellular phone is being made. This is not a malfunction.
- 

### The connected BLUETOOTH audio device cannot be controlled.

- Check that the connected BLUETOOTH audio device supports AVRCP.
- 

### Some functions do not work.

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

### A call is answered unintentionally.

- The connecting phone is set to answer a call automatically.
- 

### Pairing failed due to a timeout.

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

### BLUETOOTH function cannot operate.

- Turn off the unit by pressing OFF for more than 2 seconds, then turn the unit on again.
- 

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

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

### The track name is not displayed.

- Via BLUETOOTH, track names are not displayed.
- 

### The caller name is not displayed.

- If the caller name is not registered in the smartphone, the phone number is displayed instead.
-

---

## Sony | Music Center operation

---

**Application name is mismatched with the actual application in “Sony | Music Center”.**

- Launch the application again from the “Sony | Music Center” application.
- 

**While running the “Sony | Music Center” application via BLUETOOTH, the display automatically switches to [BT Audio].**

- The “Sony | Music Center” application or BLUETOOTH function has failed.
  - Run the application again.
- 

**The “Sony | Music Center” application is automatically disconnected when the display switches to [iPod1] or [iPod2].**

- The “Sony | Music Center” application on iPhone/iPod does not support iPod playback.
    - Change the source of the unit to other than [iPod1] or [iPod2], then establish the “Sony | Music Center” connection (page 15).
- 

## Error displays/Messages

---

### For USB device playback

---

**Device Error:** The USB device cannot be played.

- Connect the USB device again.

---

**No Device:** A USB device is not connected or recognized.

- Make sure the USB device or USB cable is securely connected.
- A USB device in MTP mode is not available.
  - Set the USB connection mode to MSC.

---

**No Music:** There is no playable file.

- Connect a USB device containing playable files (page 21).
- Check that the “Music” folder is located directly under the root directory of the USB device and that playable files are stored in the folder.

---

**No Output:** Sound signals are not output from the OPTICAL OUT terminal.

- No sound is output from the OPTICAL OUT while native DSD playback is performed via the USB micro-B port.

---

**No Support:** The USB device is not supported.

- For details on the compatibility of your USB device, visit the support site on the back cover.
- USB hubs are not supported.

---

**Overload:** The USB device is overloaded.

- Disconnect the USB device, then press SRC to select another source.
- The USB device has a fault, or an unsupported device is connected.

---

---

**Please Wait:** Now reading information.

- Wait until reading is complete and playback starts automatically. This may take some time depending on the file organization.
- 

### For BLUETOOTH function:

---

**No Device:** The BLUETOOTH device is not connected or recognized.

- Make sure the BLUETOOTH device is securely connected, or the BLUETOOTH connection is established with the BLUETOOTH device.
- 

### For Sony | Music Center operation:

---

**APP List:** The contents list of the USB is open.

- Exit the list of the application to enable button operation.
- 

**APP Menu:** A setting display of the application is open.

- Exit the setting display of the application to enable button operation.
- 

**Disconnect:** The application is disconnected.

- Make the “Sony | Music Center” connection (page 15).
- 

**Open APP:** The “Sony | Music Center” application is not running.

- Launch the application.
- 

**Settings:** A sound setting, general setting or BLUETOOTH setting display of the application is open.

- Exit the setting display of the application to enable button operation.
- 

If these solutions do not help improve the situation, consult your nearest Sony dealer.

## Connection/Installation

### Cautions

- Run all ground (earth) leads to a common ground (earth) point.
- Do not get the leads trapped under a screw, or caught in moving parts (e.g., seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- When making power connections, be sure to connect the connector ⑦ first, then the connector ⑧.
- Connect the **yellow** and **red** power supply leads only after all other leads have been connected.
- Be sure to insulate any loose unconnected leads with electrical tape for safety.

### For your safety

To prevent a traffic accident, make sure that the connected cables do not interfere with the air-bag system or driving operation.

### Precautions

- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperature, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.

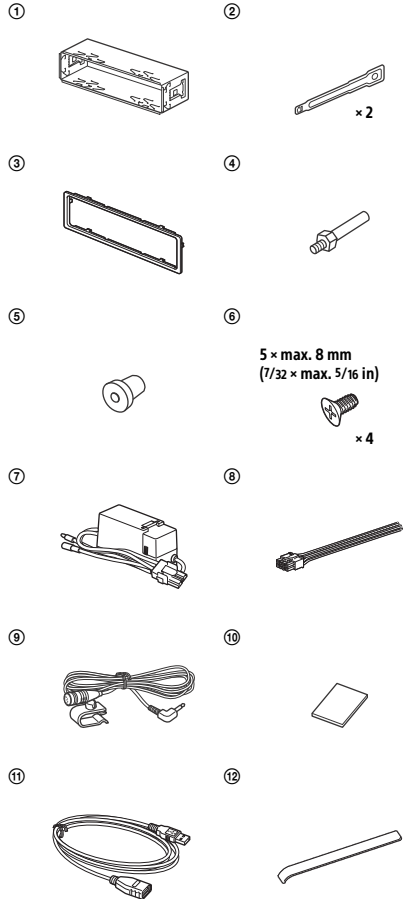
### Note on the power supply lead (yellow)

When connecting this unit in combination with other stereo components, the amperage rating of the car circuit to which the unit is connected must be higher than the sum of each component's fuse amperage rating.

### Mounting angle adjustment

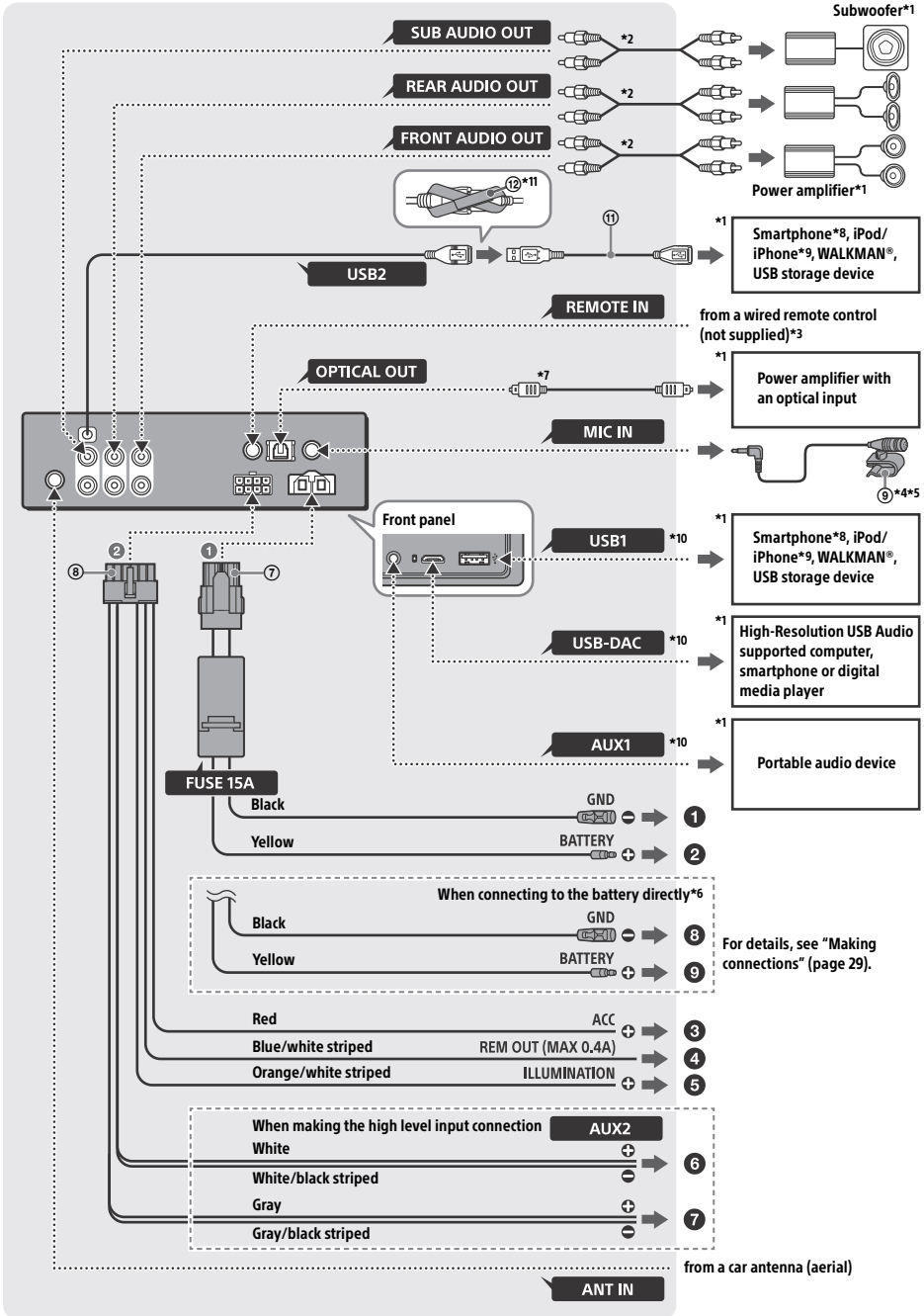
Adjust the mounting angle to less than 45°.

## Parts List for Installation

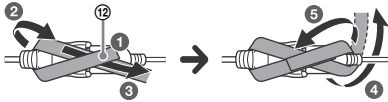


- This parts list does not include all the package contents.
- The bracket ① and the protection collar ③ are attached to the unit before shipping. Before mounting the unit, use the release keys ② to remove the bracket ① from the unit. For details, see "Removing the protection collar and the bracket" (page 31).
- Keep the release keys ② for future use as they are also necessary if you remove the unit from your car.

# Connection



- \*1 Not supplied
- \*2 RCA pin cord (not supplied)
- \*3 Depending on the type of car, use an adaptor for a wired remote control (not supplied).
- \*4 Whether in use or not, route the microphone input cord such that it does not interfere with driving operations. Secure the cord with a clamp, etc., if it is installed around your feet.
- \*5 For details on installing the microphone, see "Installing the microphone" (page 30).
- \*6 When the amperage rating of the fuse used on your car is 10 A, make the power connection to the battery directly to avoid short circuits.
- \*7 When making the optical connection, an optical cable (not supplied) is required.
- \*8 To connect a smartphone to the main unit, an appropriate cable (not supplied) is required.
- \*9 To connect an iPod/iPhone, use the USB connection cable for iPod (not supplied).
- \*10 For details on the connection, see "Guide to Audio Device Connection" (page 7).
- \*11 To secure the connectors, wrap the hook and loop fastener ⑫ around the neck of connectors, then bring the ends of the hook and loop fastener together.



## Making connections

- 1 To a common ground (earth) point**  
First connect the black ground (earth) lead, then connect the yellow and red power supply leads.
- 2 To the +12 V power terminal which is energized at all times**  
Be sure to first connect the black ground (earth) lead to a common ground (earth) point.
- 3 To the +12 V power terminal which is energized when the ignition switch is set to the accessory position**  
If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.  
Be sure to first connect the black ground (earth) lead to a common ground (earth) point.
- 4 To the power antenna (aerial) control lead or the power supply lead of the antenna (aerial) booster**  
It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).  
**To AMP REMOTE IN of an optional power amplifier**  
This connection is only for amplifiers and a power antenna (aerial). Connecting any other system may damage the unit.

- 5 To a car's illumination signal**  
Be sure to first connect the black ground (earth) lead to a common ground (earth) point.

### When making the high level input connection

For details, see "High level input connection" (page 30).

- 6 To the left speaker output (white) of an audio device**
- 7 To the right speaker output (gray) of an audio device**

### When connecting to the battery directly

When the amperage rating of the fuse used on your car is 10 A, make the power connection to the battery directly to avoid short circuits.

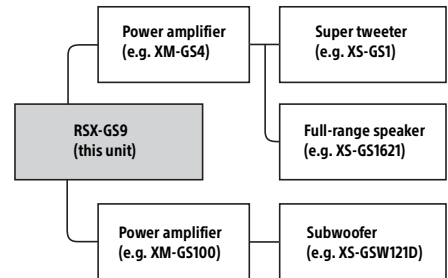
- 8 To a metal point of car**
- 9 To the positive battery terminal**

#### Notes

- Despite connecting to the power supply lead of the car, the unit may not fully provide its performance due to insufficient power. In this case, make the power connection to the battery directly.
- Make sure that the car's battery wires connected to the car (ground (earth) to chassis) are of a wire gauge at least equal to that of the main power wire connected from the battery to the head unit.

If you have any questions or problems concerning the connection, consult the dealer for details.

## Recommended High-Resolution USB Audio system

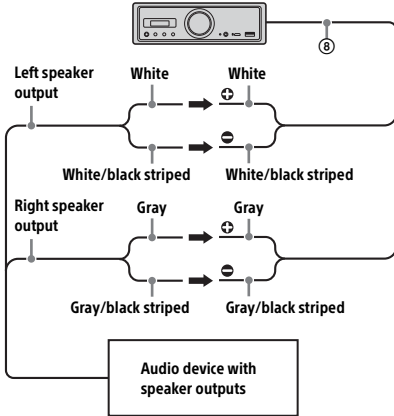


#### Note

Certain products shown in the diagram may not be available in your country or region.

## High level input connection

For details on the connection, refer to the manual supplied with your audio device.



## Optical connection

- This OPTICAL OUT is designed for connecting a power amplifier with an optical input. When another digital device is connected, the functions of the device may not work properly.
- When making connections, do not bend the optical cable (not supplied). Doing so may prevent output of sound.
- When the optical connection is made:
  - set [Optical Out] to [48kHz] or [96kHz] to enable.
  - the volume controls on the unit and the remote commander do not work.
  - [Subwoofer], [Pos Custom], [Pos Preset], [EQ10 Preset], [Balance], [Fader], [Loudness] and [DSEE HX] are automatically set to [OFF].
  - No sound is output while native DSD playback is performed via the USB micro-B port.

## Power amplifier connection

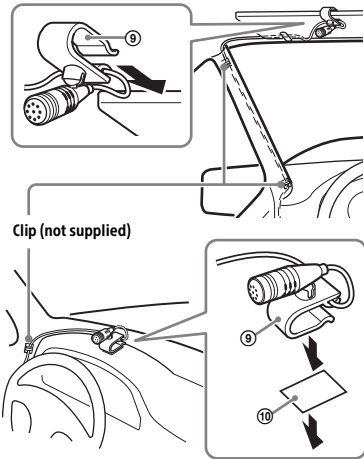
Stop using the unit and the power amplifier that is not supported a High-Resolution Audio, when unusual noise is generated.

## Memory hold connection

When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

## Installing the microphone

To capture your voice during handsfree calling, you need to install the microphone ⑨.



### Cautions

- It is extremely dangerous if the cord becomes wound around the steering column or gearstick. Be sure to keep it and other parts from interfering with your driving operations.
- If airbags or any other shock-absorbing equipment is in your car, contact the store where you purchased this unit, or the car dealer, before installation.

### Note

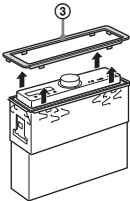
Before attaching the double-sided tape ⑩, clean the surface of the dashboard with a dry cloth.

# Installation

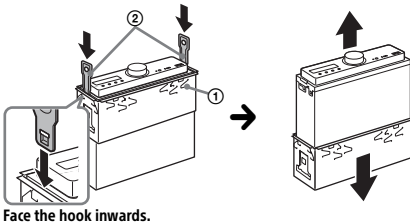
## Removing the protection collar and the bracket

Before installing the unit, remove the protection collar ③ and the bracket ① from the unit.

- 1 Pinch both edges of the protection collar ③, then pull it out.



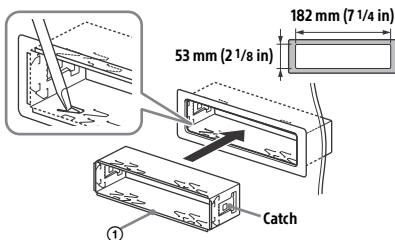
- 2 Insert both release keys ② until they click, and pull down the bracket ①, then pull up the unit to separate.



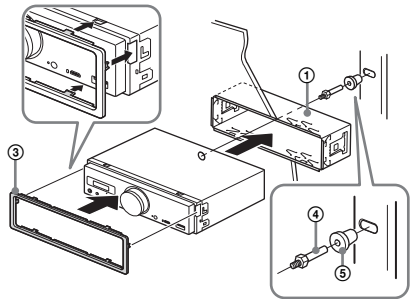
## Mounting the unit in the dashboard

Before installing, make sure the catches on both sides of the bracket ① are bent inwards 2 mm (3/32 in). When mounting in a Japanese car, see "Mounting the unit in a Japanese car" (page 31).

- 1 Position the bracket ① inside the dashboard, then bend the claws outward for a tight fit.



- 2 Mount the unit onto the bracket ①, then attach the protection collar ③.



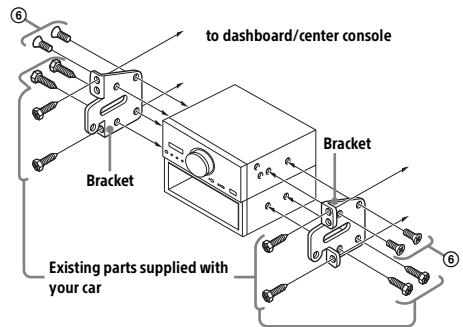
### Notes

- If the catches are straight or bent outwards, the unit will not be installed securely and may spring out.
- Make sure the 4 catches on the protection collar ③ are properly engaged in the slots of the unit.

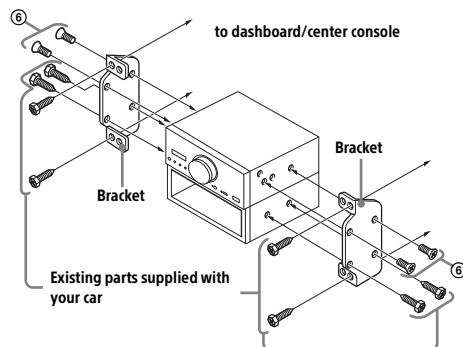
## Mounting the unit in a Japanese car

You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your Sony dealer.

### TOYOTA



### NISSAN



**Note**

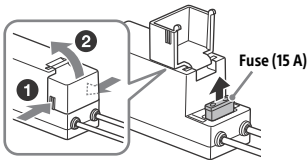
To prevent malfunction, install only with the supplied screws ⑥.

## Resetting the unit

For details, see “Resetting the Unit” (page 9).

## Fuse replacement

When replacing the fuse, be sure to use one matching the amperage rating stated on the original fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.

**Note**

Use an appropriate tool to replace a fuse.





Para mayor seguridad, asegúrese de instalar esta unidad en el panel del auto ya que la parte superior de la unidad se calienta durante el uso. Para obtener más información, consulte "Conexión/Instalación" (página 30).

La placa de características que indica el voltaje de funcionamiento, etc., está situada en la parte inferior del chasis.



**ADVERTENCIA: No ingiera la pila, ya que existe riesgo de quemadura química.**

El mando a distancia contiene una pila de botón. La ingestión de la pila de botón puede provocar quemaduras internas graves en solo 2 horas que pueden llegar a causar la muerte.

Mantenga siempre las pilas nuevas y usadas lejos del alcance de los niños. Si el compartimento de la pila no se cierra correctamente, deje de usar el producto y guárdelo lejos del alcance de los niños. Si cree que una pila puede haberse ingerido o alojado en alguna parte del cuerpo, solicite asistencia médica de forma inmediata.

#### **Nota sobre la pila de litio**

No exponga la pila a fuentes de calor excesivo como luz solar directa, fuego o similar.

#### **Exención de responsabilidad sobre los servicios prestados por otros proveedores**

Los servicios prestados por otros proveedores están sujetos a cambios, anulaciones o interrupciones sin previo aviso. Sony no asume responsabilidad alguna en estas situaciones.

## Aviso importante

### Precaución

SONY NO SERÁ RESPONSABLE DE NINGÚN DAÑO INCIDENTAL, INDIRECTO O DERIVADO NI DE OTROS DAÑOS QUE INCLUYEN, ENTRE OTROS, PÉRDIDA DE GANANCIAS, PÉRDIDA DE INGRESOS, PÉRDIDA DE DATOS, PÉRDIDA DE LA UTILIDAD DEL PRODUCTO O DE CUALQUIER EQUIPO RELACIONADO, TIEMPO DE INACTIVIDAD Y TIEMPO DEL COMPRADOR RELACIONADO CON LA UTILIZACIÓN DE ESTE PRODUCTO, SU HARDWARE Y SU SOFTWARE, O QUE RESULTEN DE DICHA UTILIZACIÓN.

Estimado cliente, este producto incluye un radio transmisor.

Corrobore el manual de operación de su automóvil o contacte al fabricante o al vendedor de su automóvil antes de instalar el producto en este.

### Llamadas de emergencia

El dispositivo de manos libres BLUETOOTH para automóviles y el dispositivo electrónico conectados al manos libres funcionan utilizando redes de señales de radio, celulares y terrestres así como también la función programada por el usuario, que no pueden garantizar la conexión en todas las condiciones.

Por lo tanto, no dependa únicamente de un dispositivo electrónico para las comunicaciones esenciales (como las emergencias médicas).

### Acerca de la comunicación BLUETOOTH

- Las microondas que emite un dispositivo BLUETOOTH pueden afectar el funcionamiento de dispositivos médicos electrónicos. Apague esta unidad y los demás dispositivos BLUETOOTH en los lugares siguientes ya que podrían provocar un accidente.
  - Lugares con presencia de gas inflamable, hospitales, trenes, aviones o gasolineras
  - Lugares cerca de puertas automáticas o alarmas de incendios
- Esta unidad admite recursos de seguridad que cumplen con el estándar BLUETOOTH para proporcionar una conexión segura al utilizar la tecnología inalámbrica BLUETOOTH, pero es posible que la seguridad sea insuficiente según el ajuste. Tenga cuidado al realizar una comunicación con la tecnología inalámbrica BLUETOOTH.
- No se aceptan responsabilidades por la pérdida de información que pudiera producirse durante una comunicación BLUETOOTH.

Si desea realizar alguna consulta o solucionar algún problema relativo a la unidad que no se traten en este manual, póngase en contacto con el distribuidor Sony más cercano.

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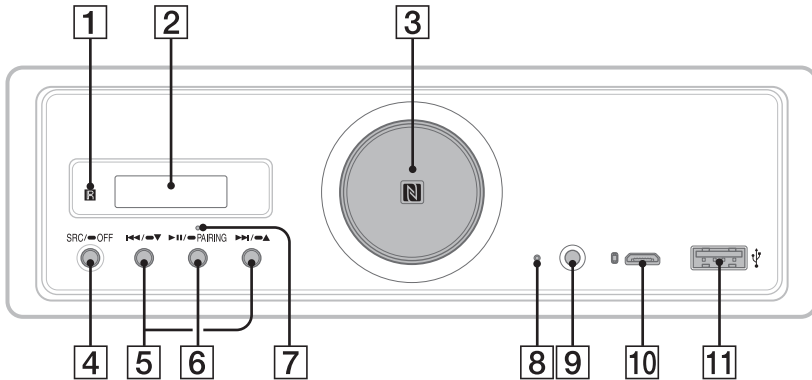
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Para obtener más información sobre el software utilizado por esta unidad, consulte "**Información importante sobre el software**" en las páginas al final de estas instrucciones de funcionamiento.

# Guía para las piezas y los controles

## Unidad principal



- En este manual, los procedimientos se explican principalmente para usar un control remoto a menos que se especifique lo contrario.
- Los botones disponibles se encienden según la fuente seleccionada.

### 1 Receptor para el control remoto

### 2 Ventana de visualización

### 3 Control de volumen

Gírelo para ajustar el volumen.

#### Marca N

Toque con un smartphone compatible con NFC para establecer la conexión Bluetooth®.

### 4 SRC (fuente)

Para encender la unidad.

Para cambiar la fuente.

#### ● OFF

Manténgalo presionado durante 1 segundo para apagar la fuente y mostrar el reloj en la pantalla. Manténgalo presionado durante más de 2 segundos para apagar la unidad y la pantalla. Si se apaga la unidad y la pantalla desaparece, la operación mediante el control remoto no se encuentra disponible.

### 5 ◀◀/▶▶ (anterior/siguiente)

USB1/USB2: Saltar pistas.

Tuner: Para recibir a las emisoras almacenadas.

#### ● ▼/▲ (álbum -/+)

USB1/USB2: Mantenga apretado para saltar los álbumes.

Tuner: Mantenga apretado para sintonizar automáticamente una emisora.

### 6 ▶|| (reproducción/pausa)

USB1/USB2: Comenzar/pausar reproducción.

Cuando la reproducción se encuentre pausada, la iluminación de la unidad comenzará a parpadear.

Tuner: Para cambiar de banda.

#### ● PAIRING (página 10)

Mantenga presionado durante 2 segundos para ingresar al modo de espera del emparejamiento BLUETOOTH.

### 7 Indicador BLUETOOTH

### 8 Botón de reinicio (página 9)

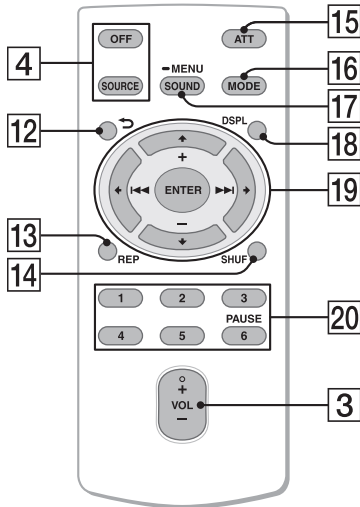
### 9 Toma de entrada AUX

### 10 Puerto USB micro-B (para USB-DAC)

### 11 Puerto USB tipo-A (para USB1)

También es posible cargar el dispositivo conectado (Alta-carga USB).

## Control remoto RM-X261



El botón VOL (volumen) + tiene un punto sensible al tacto.

### 12 ↶ (atrás)

Para volver a la pantalla anterior.

### 13 REP (repetir)

### 14 SHUF (shuffle)

### 15 ATT (atenuar)

Atenuar el sonido. Vuelva a presionar para cancelar la atenuación.

### 16 MODE (página 12)

### 17 SOUND\*1\*2

Abra el menú de sonido directamente.

#### —MENU\*1

Manténgalo presionado para abrir el menú de configuración.

\*1 No disponible cuando está seleccionado el teléfono BT.

\*2 No disponible cuando la salida óptica esté habilitada, o la fuente se encuentre apagada y se muestre el reloj.

### 18 DSPL (pantalla)

Para cambiar los elementos en pantalla.

### 19 ←/↑/↓/→

Seleccione un elemento de configuración, etc.

#### ENTER

Ingrese el elemento seleccionado.

#### ⏪/⏩ (anterior/siguiente)

USB1/USB2: Saltar pistas.

Tuner: Para sintonizar emisoras de radio en forma automática. Manténgalo presionado para sintonizarlas en forma manual.

#### +/- (álbum +/-)

USB1/USB2: Saltar álbumes.

Tuner: Para recibir a las emisoras almacenadas.

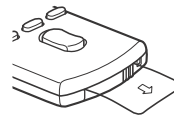
### 20 Botones numéricos (1 al 6)

Para recibir las emisoras almacenadas.

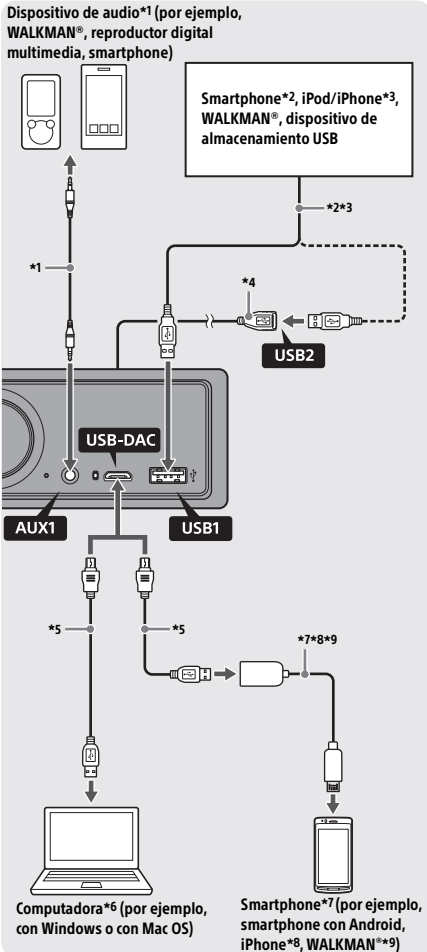
Manténgalo presionado para almacenarlas.

#### PAUSE

Retire la película de aislamiento antes del uso.



# Guía para la conexión de un dispositivo de audio



- \*1 Dispositivo de audio con entrada estéreo minitoma. Cuando se conecte, utilice un conector estéreo minitoma (no suministrado). No utilice ningún tipo de enchufe que interfiera con el panel de instrumentos del automóvil.
- \*2 Solo se encuentra disponible un smartphone con modo MSC. Cuando conecte un smartphone, utilice un cable USB apropiado (no suministrado).
- \*3 Cuando conecte un iPod/iPhone, utilice un cable de conexión USB para iPod/iPhone (no suministrado).
- \*4 Utilice el cable USB de extensión (suministrado).
- \*5 Utilice un cable USB apropiado (conector USB-A a USB micro B) (no suministrado).
- \*6 Para la reproducción de archivos de alta resolución, se recomienda el uso del software "Hi-Res Audio Player" o "Media Go". Cuando se utilice "Hi-Res Audio Player": Para Windows, se requerirá la instalación del controlador de dispositivo específico para su computadora. Para Mac OS, no se requiere la instalación de un controlador de dispositivo. Cuando utilice "Media Go": Para Windows, se requerirá la instalación del controlador de dispositivo específico para su computadora. "Media Go" no es compatible con el sistema Mac OS. Para obtener más información, visite el sitio de soporte técnico que figura en la contratapa.
- \*7 Cuando conecte un smartphone con sistema Android, utilice un cable USB OTG (no suministrado). Se requerirá la descarga de la aplicación específica para reproducir archivos de audio de alta resolución.
- \*8 Cuando conecte un iPhone/iPod, necesitará un cable específico (no suministrado). Es posible que este cable no esté disponible en su país o región.
- \*9 Sólo está disponible un WALKMAN® que admita una salida digital. Al conectar el WALKMAN®, se requiere un cable de conversión USB WMC-NWH10 (no suministrado). Estos podrían no estar disponibles en su país o región.

El diseño y las especificaciones están sujetos a cambios sin previo aviso.

## Para su seguridad

Para evitar un accidente de tránsito, asegúrese de que los cables conectados no interfieran con el sistema de bolsa de aire o con la correcta conducción del automóvil.

## Formatos ejecutables de archivos de audio con alta resolución

Los formatos de archivo ejecutables, las frecuencias de muestra y la profundidad de bits difieren si se utiliza un puerto USB tipo-A o USB micro-B.

	USB-DAC (puerto USB micro-B)	USB1 (puerto USB tipo-A, Frontal)	USB2 (puerto USB tipo-A Posterior)
DSD	ASIO Native: 2,8 MHz/1 bit, 5,6 MHz/1 bit, 11,2 MHz/1 bit* DoP: 2,8 MHz/1 bit, 5,6 MHz/1 bit	-	-
PCM	Máx. 192 kHz/24 bit	-	-
DSF	-	2,8 MHz/1 bit (conversión PCM), 5,6 MHz/1 bit (conversión PCM)	2,8 MHz/1 bit (conversión PCM), 5,6 MHz/1 bit (conversión PCM)
DSDIFF	-	2,8 MHz/1 bit (conversión PCM), 5,6 MHz/1 bit (conversión PCM)	2,8 MHz/1 bit (conversión PCM), 5,6 MHz/1 bit (conversión PCM)
WAV	-	192/176,4/96/88,2/48/44,1 kHz (24 bit), 192/176,4/96/88,2 kHz (16 bit)	192/176,4/96/88,2/48/44,1 kHz (24 bit), 192/176,4/96/88,2 kHz (16 bit)
AIFF	-	192/176,4/96/88,2/48/44,1 kHz (24 bit), 192/176,4/96/88,2 kHz (16 bit)	192/176,4/96/88,2/48/44,1 kHz (24 bit), 192/176,4/96/88,2 kHz (16 bit)
FLAC	-	192/176,4/96/88,2/48/44,1 kHz (24 bit), 192/176,4/96/88,2 kHz (16 bit)	192/176,4/96/88,2/48/44,1 kHz (24 bit), 192/176,4/96/88,2 kHz (16 bit)
ALAC	-	192/176,4/96/88,2/48/44,1 kHz (24 bit), 192/176,4/96/88,2 kHz (16 bit)	192/176,4/96/88,2/48/44,1 kHz (24 bit), 192/176,4/96/88,2 kHz (16 bit)

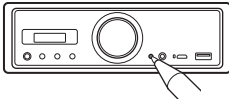
\* Reproducible sólo a través de un WALKMAN® que admita una salida digital. Este WALKMAN® podría no estar disponible en su país o región.



## Procedimientos iniciales

### Reinicio de la unidad

Antes de operar la unidad por primera vez, luego de reemplazar la batería del automóvil o cambiar las conexiones, debe reiniciar la unidad.



#### Nota

Al presionar el botón de reinicio se, borrará la configuración del reloj y algunos contenidos almacenados.

### Paso para cambio de sintonización FM/AM

Defina el paso de sintonización FM/AM de su país. Esta configuración aparece **solo cuando la fuente se encuentre apagada y se muestre el reloj.**

Utilice el control remoto para realizar la siguiente operación.

- 1 Mantenga apretado MENU, luego **↑** o **↓** para seleccionar [General] y luego seleccione ENTER.
- 2 Presione **↑** o **↓** para seleccionar [Tuner Step], luego apriete ENTER.
- 3 Presione **↑** o **↓** para seleccionar de [50k/9kHz], [100k/10kHz] o [200k/10kHz], luego apriete ENTER.

### Ajuste del reloj

Utilice el control remoto para realizar la siguiente operación.

- 1 Mantenga apretado MENU, luego **↑** o **↓** para seleccionar [General] y luego seleccione ENTER.
- 2 Presione **↑** o **↓** para seleccionar [Clock Adjust], luego apriete ENTER. La indicación de la hora parpadea.
- 3 Presione **↑** o **↓** para definir la hora y los minutos. Para mover la indicación digital, presione **←** o **→**.

### 4 Una vez ajustados los minutos, presione ENTER.

El ajuste se completa y el reloj se pone en funcionamiento.

#### Para visualizar el reloj

Presione DSPL.

### Preparación de dispositivo BLUETOOTH

Puede disfrutar de música o realizar llamadas con manos libres dependiendo del dispositivo compatible de BLUETOOTH, como un smartphone, un teléfono celular o un dispositivo de audio (de aquí en adelante "dispositivo BLUETOOTH" a no ser que se especifique de otra forma). Para obtener más información acerca de la conexión, consulte las instrucciones de funcionamiento que se suministran con el dispositivo.

Existen dos maneras de conectar un dispositivo BLUETOOTH:

- La **conexión One touch para dispositivos BLUETOOTH con compatibilidad NFC.**
- **Conexión manual.**

Antes de conectar el dispositivo, apague el volumen de esta unidad; si no lo hace, puede oírse un sonido fuerte.

#### Conectar con un Smartphone a través de One touch (NFC)

Al tocar la marca N de la unidad con un smartphone compatible con NFC\*, la unidad quedará emparejada y automáticamente conectada con el smartphone.

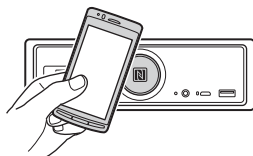
\* NFC (Comunicación de campo cercano) es una tecnología que permite la comunicación inalámbrica de corto rango entre varios dispositivos, como teléfonos móviles y etiquetas de IC. Gracias a la función de NFC, la comunicación de datos se puede alcanzar fácilmente con sólo tocar el símbolo correspondiente o ubicación señalada en dispositivos compatibles con tecnología NFC.

Para un smartphone con Android™ OS 4.0 o inferior instalado, se requiere descargar la aplicación "NFC Easy Connect" disponibles en Google Play™. Es posible que la aplicación no esté disponible para su descarga en algunos países/regiones.

#### 1 Activación de la función NFC en un smartphone.

Para obtener más información, consulte las instrucciones de funcionamiento que se suministran con el smartphone.

- 2** Toque la parte marca N de la unidad con la parte marca N del smartphone.



Asegúrese de que se encienda el indicador de BLUETOOTH en la unidad.

### Para desconectar mediante One touch

Toque nuevamente la parte marca N de la unidad con la parte marca N del smartphone.

#### Notas

- Al realizar la conexión, manipule el smartphone cuidadosamente para evitar raspaduras.
- La conexión One touch no es posible cuando la unidad ya está conectada a otro dispositivo compatible con tecnología NFC. En este caso, desconecte el dispositivo y haga conexión con el smartphone nuevo.

## Emparejamiento y conexión con otro dispositivo BLUETOOTH

Cuando conecte un dispositivo BLUETOOTH por primera vez es necesario el registro de ambos dispositivos (denominado "emparejamiento"). El emparejamiento permite que la unidad y otros dispositivos se reconozcan entre sí.



- 1** Coloque el dispositivo BLUETOOTH dentro de 1 m de distancia respecto de la unidad.

- 2** Mantenga presionado **▶||** en la unidad por más de dos segundos.

También puede mantener apretado MENU en el control remoto, seleccionar [BT Setting] → [Pairing], y luego ENTER.

El indicador BLUETOOTH en la unidad parpadeará (mientras esta está en modo de espera de emparejamiento).

- 3** Realice el emparejamiento en el dispositivo BLUETOOTH para detectar esta unidad.

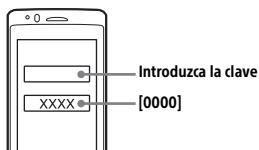
- 4** Seleccione [RSX-G59] que se muestra en la pantalla del dispositivo de BLUETOOTH.

Si el nombre de su modelo no aparece, repita desde el paso 2.



- 5** Si se requiere una clave\* en el dispositivo BLUETOOTH, escriba [0000].

\* La clave de paso puede denominarse "clave de acceso", "código PIN", "número PIN" o "contraseña", etc., en función del dispositivo.



Cuando esté emparejado, el indicador BLUETOOTH en la unidad permanecerá encendido.

- 6** Seleccione esta unidad en el dispositivo BLUETOOTH para establecer la conexión BLUETOOTH.

#### Nota

Mientras se conecta a un dispositivo BLUETOOTH, esta unidad no puede detectarse desde otro dispositivo. Para habilitar la detección, acceda al modo de emparejamiento y busque esta unidad desde otro dispositivo.

#### Para comenzar la reproducción

Para obtener más información, consulte "Reproducción de un dispositivo BLUETOOTH" (página 15).

#### Para cancelar el emparejamiento

Realizar el paso 2 para cancelar el modo de emparejamiento luego de que esta unidad y el dispositivo BLUETOOTH estén emparejados.

## Conexión con un dispositivo BLUETOOTH emparejado

Para utilizar un dispositivo emparejado, es necesaria la conexión con esta unidad. Algunos dispositivos emparejados se conectarán automáticamente.



- 1 Mantenga apretado MENU en el control remoto, seleccione [BT Setting] → [BT Signal], y luego ENTER.

Asegúrese de que se encienda el indicador de BLUETOOTH en la unidad.

- 2 Active la función BLUETOOTH en el dispositivo BLUETOOTH.
- 3 Inicie el dispositivo BLUETOOTH para conectarlo a esta unidad.

### Para conectar el dispositivo que se conectó por última vez en esta unidad

Active la función BLUETOOTH en el dispositivo BLUETOOTH.

Presione SOURCE (SRC) y luego seleccione [BT Phone]\* o [BT Audio].

Presione ENTER para conectar con el teléfono celular, o PAUSE para conectar con el dispositivo de audio.

\* Solo disponible cuando se ha establecido la conexión "Sony | Music Center".

### Nota

Mientras transmite audio BLUETOOTH, no puede realizar la conexión de esta unidad al teléfono celular. Realice en cambio la conexión desde el teléfono celular a la unidad.

### Sugerencia

Con la señal BLUETOOTH activada: si el encendido se ajusta en la posición ON, la unidad vuelve a conectarse automáticamente al último teléfono celular conectado.

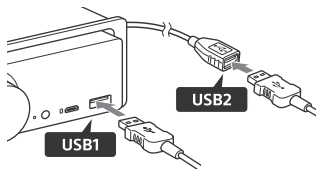
### Para instalar el micrófono

Para obtener más información, consulte "Instalación del micrófono" (página 33).

## Conexión de un dispositivo USB

- 1 Baje el volumen de la unidad.
- 2 Conecte el dispositivo USB a un puerto USB tipo-A.

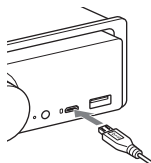
Para conectar un iPod/iPhone, utilice el cable de conexión USB para iPod/iPhone (no suministrado).



## Conexión de un dispositivo USB compatible de audio con alta resolución

- 1 Baje el volumen de la unidad.
- 2 Conecte una computadora compatible con audio USB con alta resolución, smartphone o reproductor digital multimedia al puerto USB micro-B.

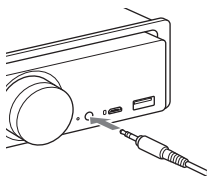
Para obtener más información, consulte "Guía para la conexión de un dispositivo de audio" (página 7).



## Conexión de otro dispositivo de audio portátil

- 1 Baje el volumen de la unidad.
- 2 Conecte el dispositivo de audio portátil a la toma de entrada AUX (minitoma estéreo) en la unidad con un cable de conexión (no suministrado)\*.

\* No utilice ningún tipo de enchufe que interfiera con el panel de instrumentos del automóvil.



Al realizar la conexión de entrada de alto nivel, consulte "AUX2" en "Conexión" para obtener más información (página 31).

- 3 Presione SRC para seleccionar [AUX1]. Alternativamente, seleccione [AUX2] para la conexión de entrada de alto nivel.

### Para hacer coincidir el nivel de volumen del dispositivo conectado con otras fuentes

Comience la reproducción del dispositivo de audio portátil en un nivel moderado y configure su nivel habitual de volumen en la unidad. Mantenga apretado MENU, luego seleccione [Sound] → [AUX Level] (página 20).

## Escuchar la radio

### Escuchar la radio

Se requiere la configuración de paso de sintonización (página 9). Para escuchar una emisora de radio, presione SOURCE (SRC) para seleccionar [Tuner].

Utilice el control remoto para realizar la siguiente operación.

### Almacenamiento automático (BTM)

- 1 Presione MODE para cambiar la banda de radio (FM1, FM2, FM3, AM1 o AM2). También puede presionar ►► en la unidad para cambiar de banda.
- 2 Mantenga apretado MENU, luego ↑ o ↓ para seleccionar [General] y luego seleccione ENTER.
- 3 Presione ↑ o ↓ para seleccionar [BTM], luego apriete ENTER.

La unidad almacena las emisoras en el orden de frecuencia en los botones numéricos.

### Sintonización

- 1 Presione MODE para cambiar la banda de radio (FM1, FM2, FM3, AM1 o AM2). También puede presionar ►► en la unidad para cambiar de banda.
- 2 Realice la sintonización.

Para realizar la sintonización manual

Mantenga presionado ◀ o ▶ para ubicar la frecuencia aproximada y, a continuación, presione ◀ o ▶ repetidas veces para ajustar la frecuencia deseada con mayor precisión.

Para realizar la sintonización automática

Presione ◀ o ▶. (También puede mantener presionado ◀◀ o ▶▶ en la unidad durante más de un segundo.)

La búsqueda se detiene cuando la unidad recibe una emisora.

### Almacenamiento manual

- 1 Mientras recibe la emisora que desea almacenar, mantenga presionado un botón numérico (de 1 a 6) hasta que aparezca [MEM].

- 1 Seleccione la banda y, a continuación, presione un botón numérico (de 1 a 6). También puede presionar ◀◀ o ▶▶ en la unidad.

### Reproducción de un dispositivo USB

En este Manual de instrucciones, "iPod" se utiliza como referencia general para las funciones del iPod en un iPod y un iPhone, a menos que se especifique lo contrario en el texto o en las ilustraciones.

Para obtener más información acerca de la compatibilidad de su iPod, consulte "Acerca de iPod" (página 22) o visite el sitio web de soporte técnico que figura en la cubierta posterior.

Pueden utilizarse dispositivos USB de tipo-MSC (Clase de Almacenamiento Masivo) (como USB flash drive, reproductor multimedia digital, smartphone Android) compatibles con el estándar USB. Según el smartphone Android o reproductor multimedia, se requiere el ajuste del modo de conexión USB a MSC. (No se encuentra disponible un dispositivo USB en modo MTP).

#### Carpeta "Music" y su ubicación (cuando se conecta el dispositivo USB)

Asegúrese de almacenar los archivos de audio en la carpeta "Music", y organícela directamente bajo el directorio principal del dispositivo USB. De lo contrario, la unidad no reconocerá los archivos de audio que se encuentran en el dispositivo.

#### Notas

- Para obtener más información acerca de la compatibilidad del dispositivo USB, visite el sitio web de soporte técnico que figura en la contratapa.
- Durante la reproducción USB, no se admite la operación de avance rápido/retroceso rápido.
- La unidad comienza a leer la estructura de archivos del dispositivo conectado al realizar la reproducción.
- [\*] aparece en la pantalla mientras la unidad lee la estructura de archivos del dispositivo conectado. Mientras se visualiza [\*], no se pueden saltar ni una pista ni un álbum (carpeta).
- Durante la reproducción USB mediante el puerto USB tipo-A, se convertirá un archivo DSD del dispositivo conectado a formato PCM.
- No es posible reproducir los archivos que se indican a continuación.
  - WMA/AAC:
    - archivos protegidos por derechos de autor
    - archivos DRM (Gestión de derechos digitales)
  - WMA:
    - archivos con formato de compresión sin pérdida
    - archivos de audio de canales múltiples
- A modo de referencia, el reconocimiento de un total de 2 000 archivos de audio en 200 carpetas en el dispositivo USB tarda unos 150 segundos.
- Es posible que a la unidad le tome algún tiempo reconocer el dispositivo USB si se actualizó la organización del archivo.

- Antes de conectar el dispositivo USB, asegúrese de seleccionar USB1 o USB2. Si un dispositivo USB con estructura de archivo actualizado se encuentra conectado mientras la unidad y la pantalla están apagadas, o no se seleccionó USB1 o USB2, la unidad no reconocerá la última organización de archivos del dispositivo.

## 1 Conecte el dispositivo USB al puerto USB tipo-A (página 11).

Se inicia la reproducción. (Según la organización de archivos, la reproducción puede tardar en comenzar).

## 2 Ajuste el volumen de esta unidad.

### Para pausar la reproducción

Presione ►II.

### Para extraer el dispositivo

Detenga la reproducción y extraiga el dispositivo.

### Para visualizar la frecuencia de muestreo y profundidad de bit del archivo de audio en reproducción

Presione DSPL durante la reproducción.

#### Notas

- Cuando se realice la reproducción DSD vía USB1 o USB2, se mostrarán la frecuencia de muestreo y profundidad de bits antes de que se convierta a formato PCM.
- Cuando se conecta un iPod/iPhone a las terminales USB1 o USB2, no se muestran la frecuencia de muestreo y profundidad de bits.
- En la pantalla de nombre de pista, sólo se muestran caracteres alfanuméricos.

### Precaución para iPhone

Al conectar un iPhone mediante USB, el volumen de las llamadas telefónicas es controlado por el iPhone, y no por la unidad. No aumente el volumen de la unidad involuntariamente durante un llamado, ya que un sonido fuerte repentino puede aparecer cuando la llamada finalice.

## Reproducción de un dispositivo compatible con audio USB de alta resolución

Para obtener más información sobre la compatibilidad de su dispositivo de audio USB de alta resolución y software o aplicaciones de reproducción de audio compatibles con DSD, busque el sitio de soporte técnico que aparece en la contratapa.

### Para su seguridad

- No opere el dispositivo compatible con audio USB de alta resolución mientras conduce.

- Antes de conducir su vehículo, asegúrese de que el dispositivo compatible con audio USB de alta resolución no se reproducirá con volumen alto (particularmente durante la reproducción DSD nativa).

## 1 Conecte el dispositivo compatible con audio USB de alta resolución al puerto USB micro-B (página 11).

## 2 Active el dispositivo para comenzar la reproducción.

## 3 Ajuste el volumen de esta unidad.

### Para detener la reproducción

Para detener la reproducción, utilice las funciones del dispositivo de audio.

Los controles de la unidad o el control remoto universal no funcionan.

### Para extraer el dispositivo

Detenga la reproducción y extraiga el dispositivo.

### Para visualizar la frecuencia de muestreo y profundidad de bit del archivo de audio en reproducción

Presione DSPL durante la reproducción.

Por ejemplo, aparecerá la siguiente información:

[192/24]: 192 kHz/24 bit

[DSD 11.2MHz]: 11,2 MHz/1 bit

#### Notas

- La reproducción sin pausas se realiza cuando la frecuencia de muestreo y la profundidad de bit son idénticas a los de la pista anterior o siguiente.
- Si la frecuencia de muestreo y la profundidad de bits que se muestran no son adecuadas, verifique los ajustes del dispositivo y su conexión.
- Para los archivos DSD en un dispositivo conectado por el puerto USB micro-B, se ejecutará la reproducción DSD nativa. Durante la reproducción, asegúrese de que la reproducción DSD nativa en el dispositivo compatible con audio USB de alta resolución funcione correctamente.

Interfaz de información correspondiente, frecuencia de muestreo y profundidad de bit:

- PCM:
  - Max. 192 kHz/24 bit
- DSD:
  - ASIO Native: 2,8 MHz/1 bit, 5,6 MHz/1 bit, 11,2 MHz/1 bit\*
  - DoP: 2,8 MHz/1 bit, 5,6 MHz/1 bit

\* Reproducible sólo a través de un WALKMAN® que admita una salida digital.

## Reproducción de un dispositivo BLUETOOTH

Puede reproducir contenido en un dispositivo conectado que sea compatible con BLUETOOTH A2DP (Perfil de distribución de audio avanzado). Se recomienda la utilización de un dispositivo compatible con LDAC.



- 1 Haga una conexión BLUETOOTH con el dispositivo de audio (página 9).
- 2 Presione SRC para seleccionar [BT Audio].  
También puede presionar SOURCE en el control remoto universal.
- 3 Para comenzar la reproducción, utilice las funciones del dispositivo de audio.
- 4 Ajuste el volumen de esta unidad.

### Notas

- Incluso si se cambia la fuente en la unidad, la reproducción de la señal del dispositivo de audio no se interrumpe.
- [BT Audio] no aparece en la pantalla mientras se ejecuta la aplicación "Sony | Music Center" mediante la función BLUETOOTH.

### Para hacer coincidir el nivel de volumen del dispositivo BLUETOOTH con otras fuentes

Comience la reproducción del dispositivo de audio portátil BLUETOOTH en un nivel moderado y configure su nivel habitual de volumen en la unidad.

Mantenga apretado MENU, luego seleccione [BT Setting] → [BTA Level] (página 20).

### Solo para aplicar el codec SBC

Mantenga apretado MENU en el control remoto, luego seleccione [Audio Codec] en [BT Setting] a [SBC] (página 20).

## Búsqueda y reproducción de pistas

Utilice el control remoto para realizar la siguiente operación.

Para iPod, las opciones de repetición y shuffle no se encuentran disponibles.

### Reproducción repetida y aleatoria

- 1 Durante la reproducción USB1 o USB2, presione REP o SHUF repetidas veces para seleccionar el modo deseado de reproducción.

La reproducción en el modo de reproducción seleccionado puede tardar en comenzar.

Modo de reproducción repetida:

- [Repeat Track] reproduce la pista en forma repetitiva.
- [Repeat Album] reproduce las pistas en el álbum (carpeta) en forma repetitiva.
- [Repeat OFF] cancela la reproducción repetida.

Modo de reproducción aleatoria:

- [Shuffle Device] reproduce todas las pistas de la carpeta "Music" en orden aleatorio.
- [Shuffle OFF] cancela reproducción aleatoria.

### Notas

- Durante la reproducción repetida, no se puede seleccionar el modo de reproducción aleatoria. Durante la reproducción aleatoria, solo [Repeat Track] se puede seleccionar, mientras que [Repeat Album] no se puede seleccionar.
- [Shuffle Device] sólo está disponible cuando la reproducción repetida está desactivada.
- Cuando la reproducción aleatoria se activa o se cancela, la reproducción comienza en la primera pista de la carpeta "Music".
- Mientras la reproducción aleatoria está activada con [Repeat Track] seleccionado, presionar ►► desactivará [Repeat Track] y reanudará la reproducción aleatoria desde la primera pista en la carpeta "Music".
- Durante la reproducción aleatoria, no se podrá visualizar la lista de "Sony | Music Center". Para activar la vista de lista, cancele el modo de reproducción aleatoria.

## Llamada con manos libres (solo a través de BLUETOOTH)

Para usar un teléfono celular, conéctelo a esta unidad. Para obtener más información, consulte "Preparación de dispositivo BLUETOOTH" (página 9). Solo cuando se establezca la conexión "Sony | Music Center", se activará la opción [BT Phone] cuando seleccione la fuente.



Utilice los controles en la unidad para realizar la siguiente operación.

---

## Recepción de llamadas

### 1 Presione cualquier botón cuando reciba una llamada con un tono de llamada.

Comienza la llamada telefónica.

#### Nota

El tono de llamada y la voz del parlante se emiten solamente desde el dispositivo de audio que se conecta a FRONT AUDIO OUT.

#### Para rechazar la llamada

Mantenga presionado el siguiente botón:

- cualquier botón, menos SRC, durante 2 segundos.
- SRC por 1 o 2 segundos.

#### Para finalizar una llamada

Presione SRC.

---

## Realización de llamadas

Solo puede realizar una llamada mediante "Sony | Music Center". Para obtener más información, consulte "Sony | Music Center con smartphone iPhone/Android" (página 17).

---

## Tareas disponibles durante la llamada

#### Para ajustar el volumen del tono de llamada

Gire el selector de volumen cuando reciba la llamada.

#### Para ajustar el volumen de la voz del hablante

Gire el selector de volumen durante una llamada.

#### Para ajustar el volumen para otra persona (Ajuste de ganancia de micrófono)

Presione ◀◀ durante una llamada.

Niveles ajustables de volumen: [MIC High] (alto), [MIC Low] (bajo), [MIC Middle] (medio).

#### Para reducir el eco y el ruido (Cancelador de ecos/Modo cancelador de ruidos)

Presione ▶▶ durante una llamada.

Modo configurable: [ECNC 1], [ECNC 2].

#### Para cambiar entre el modo manos libres y el modo manual

Durante una llamada, presione ▶|| para cambiar el audio de la llamada telefónica entre la unidad y un teléfono celular.

#### Notas

- Según el teléfono celular, esta operación puede no estar disponible.
- En la pantalla de nombre de la persona que llama, sólo se muestran caracteres alfanuméricos.



## Funciones útiles

### Sony | Music Center con smartphone iPhone/Android

Se requiere la descarga de la última versión de la aplicación "Sony | Music Center" desde App Store para el iPhone o desde Google Play para smartphone Android.

#### Notas

- Por su seguridad, cumpla con las regulaciones y leyes de tráfico locales y no utilice la aplicación mientras maneja.
- "Sony | Music Center" es una aplicación para controlar dispositivos de audio Sony que son compatibles, mediante su smartphone iPhone/Android.
- Lo que pueda controlar con "Sony | Music Center" varía de acuerdo al dispositivo conectado.
- Para hacer uso de las características de "Sony | Music Center", vea los detalles en su smartphone iPhone/Android.
- Para obtener más detalles sobre "Sony | Music Center", visite la siguiente URL: [http://vssupport.sony.net/en\\_ww/help/](http://vssupport.sony.net/en_ww/help/)
- Visite el sitio web debajo y consulte los modelos de smartphone iPhone/Android compatibles.  
Para iPhone: visite la App Store  
Para smartphone Android: visite Google Play

### Establecer la conexión Sony | Music Center

- 1 Realice la conexión BLUETOOTH con su smartphone iPhone/Android (página 9).**
- 2 Abrir la aplicación "Sony | Music Center".**  
Comienza la conexión con su smartphone iPhone/Android.  
Para obtener más detalles acerca del funcionamiento del smartphone iPhone/Android, consulte la ayuda de la aplicación.

#### Si aparece el número de dispositivo

Asegúrese de que el número se muestre (por ejemplo, 123456), luego seleccione [Sí] en el smartphone iPhone/Android.

### Seleccionar la fuente o aplicación

Puede operar para seleccionar la fuente o aplicación deseada en su smartphone iPhone/Android.

#### Para seleccionar la fuente

Presione SOURCE repetidas veces.

#### Nota

Cuando "Settings" se encuentre seleccionado, no funcionará ningún control de la unidad ni del control remoto, salvo el del volumen. Utilice su smartphone iPhone/Android.

#### Para mostrar la lista de fuentes

Seleccione la lista de fuentes en la aplicación "Sony | Music Center".

### Anuncio de varios tipos de información por guía de voz (sólo para smartphone Android)

Cuando se recibe una notificación de Twitter/Facebook/Calendar, etc. vía SMS, se anuncia automáticamente a través del dispositivo de audio conectado a FRONT AUDIO OUT.

Para detalles sobre la configuración, refiérase a la ayuda de la aplicación.

### Responder un mensaje SMS (sólo para smartphone Android)

Podrá responder un mensaje.

- 1 Seleccione el ícono de responder en la aplicación "Sony | Music Center".**  
Aparecerá la visualización de entrada de mensaje.
- 2 Ingrese un mensaje de respuesta mediante el reconocimiento por voz.**  
Aparecerá la lista de posibles mensajes.
- 3 Elija el mensaje deseado.**  
Se envía el mensaje.

Para detalles, refiérase a la ayuda de la aplicación.

## Ajuste de sonido y pantalla

Puede ajustar la configuración relacionada con el sonido y la pantalla a través del smartphone iPhone/Android.

Para detalles sobre la configuración, refiérase a la ayuda de la aplicación.

## Ajustes

### Operación básica de ajustes

Puede seleccionar elementos de las siguientes categorías de configuración:

Configuración general (General), Configuración de sonido (Sound), Configuración de BLUETOOTH (BT Setting), Configuración Sony | Music Center (Sony APP)

(Cuando el BT phone está seleccionado, solo estará disponible el ajuste BLUETOOTH.)

Utilice el control remoto para realizar la siguiente operación.

**1** Mantenga apretado MENU, luego **↑** o **↓** para seleccionar la categoría de configuración y luego seleccione ENTER.

Los elementos que pueden establecerse difieren según la fuente y los ajustes.

**2** Presione **↑** o **↓** para seleccionar las opciones, luego apriete ENTER.

**Para regresar a la pantalla anterior**

Presione **↶**.

## Configuración general (General)

**Clock Adjust** (página 9)

### Dimmer

Se atenúa la pantalla: [ON], [OFF], [Auto].  
([Auto] solo disponible cuando el cable de control de iluminación está conectado y enciende la luz principal).

### Brightness

Ajusta el brillo de la pantalla. El nivel de brillo se puede ajustar: [1] – [10].  
La configuración de brillo se almacenan y aplican cuando la función de atenuación está activada o desactivada.

### Optical Out

Selecciona la configuración de la salida óptica: [OFF], [48kHz], [96kHz].  
(El control de volumen de la unidad no funciona cuando está seleccionado [48kHz] o [96kHz]).

**BTM** (memoria de la mejor sintonía) (página 12)

(Solamente estará disponible cuando el sintonizador esté seleccionado).

---

### Black Out (desactivación de la pantalla)

Apaga automáticamente la iluminación para cualquier fuente (por ejemplo, durante la recepción de una radio, etc.) si no se realiza ninguna operación por 5 segundos: [ON], [OFF]. Para volver a encender la luz, presione cualquier botón de la unidad o del control remoto.

---

### Tuner Step (página 9)

(Disponible solamente mientras la fuente esté apagada y se muestre el reloj).

---

### Firmware

(Disponible solamente mientras la fuente esté apagada y se muestre el reloj).

Revisa/Actualiza la versión del firmware. Para obtener más información, visite el sitio de soporte técnico que figura en la contratapa.

#### Version

Muestra la versión actual del firmware.

#### Update

Ingresar al proceso de actualización del firmware: [NO], [YES].

La actualización del firmware tardará unos minutos en finalizar. Durante la actualización, no ponga el encendido en la posición OFF.

---

---

## Configuración del sonido (Sound)

Este menú de configuración también puede abrirse al presionar SOUND. Si la opción [Optical Out] está configurado en [48kHz] o [96kHz], este menú de configuración no estará disponible.

---

### Subwoofer

(Automáticamente se configura en [OFF] cuando [Optical Out] está configurado en [48kHz] o [96kHz]). (No disponible durante la reproducción DSD nativa cuando esté seleccionada la opción USB-DAC).

**Sub Level\*** (nivel de altavoz potenciador de graves)

Ajusta el nivel de volumen del altavoz potenciador de graves: [+10dB] – [0dB] – [-10dB].

**Sub Phase** (fase de altavoz potenciador de graves)

Selecciona la fase del altavoz potenciador de graves: [Normal], [Reverse].

**LPF Freq** (frecuencia de filtro de paso bajo)

Selecciona la frecuencia de recorte del altavoz potenciador de graves: [OFF], [50Hz], [63Hz], [79Hz], [99Hz], [125Hz], [158Hz], [198Hz], [250Hz].

**LPF Slope** (pendiente de filtro de paso bajo)

Selecciona la pendiente LPF (solo funciona cuando [LPF Freq] está configurada en una opción diferente de [OFF]): [SLP1] (-12dB/oct), [SLP2] (-24dB/oct), [SLP3] (-36dB/oct), [SLP4] (-48dB/oct).

---

**LPF Mode** (modo de filtro de paso bajo)

Configura el modo de filtro: [Mono], [Stereo].

**HPF Freq** (frecuencia de filtro de paso alto)

Selecciona la frecuencia de recorte de los parlantes frontales y posteriores: [OFF], [50Hz], [63Hz], [79Hz], [99Hz], [125Hz], [158Hz], [198Hz], [250Hz].

**HPF Slope** (pendiente del filtro de paso alto)

Selecciona la pendiente HPF (solo funciona cuando [HPF Freq] está configurada en una opción diferente de [OFF]): [SLP1] (-12dB/oct), [SLP2] (-24dB/oct), [SLP3] (-36dB/oct), [SLP4] (-48dB/oct).

---

\* Disponible aunque esté seleccionado [Optical Out].

---

### Sub DSD (altavoz potenciador de graves DSD)

(Solo disponible durante la reproducción DSD nativa cuando esté seleccionada la opción USB-DAC).

**LPF Freq** (frecuencia de filtro de paso bajo)

Selecciona la frecuencia de recorte del altavoz potenciador de graves: [OFF], [150Hz].

**LPF Mode** (modo de filtro de paso bajo)

Configura el modo de filtro: [Mono], [Stereo].

---

### Pos Custom (posición personalizada)

Selecciona [Custom] de [Pos Preset].

(Disponible cuando se selecciona cualquier fuente excepto el BT phone). (Automáticamente se configura en [OFF] cuando [Optical Out] está configurado en [48kHz] o [96kHz]).

#### Front Left, Front Right, Rear Left, Rear Right, Subwoofer

Selecciona la distancia desde su posición deseada al parlante.

Rango ajustable: [0] – [350] cm

([Subwoofer] no se encuentra disponible durante la reproducción DSD nativa mientras esté seleccionada la opción USB-DAC.)

---

### Pos Preset (posición preestablecida)

**F/R Pos** (posición frontal/posterior)

Simula un campo de sonido natural mediante el retardo de la salida de sonido desde los altavoces para adecuarse a su posición:

① [Front Left], ② [Front Right], ③ [Center Front], ④ [ALL]

(centro de su vehículo),

[Custom]\*1 (posición establecida en [Pos Custom]),

[OFF] (sin posición establecida)

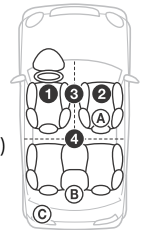
**Adjust Pos**\*2 (posición de ajuste)

Sintoniza con mayor precisión el ajuste de la posición de escucha: [+3] – [0] – [-3].

**Subwoofer**\*2 (posición del

altavoz potenciador de graves)

Ⓐ [Near], Ⓑ [Normal], Ⓒ [Far]



\*1 Disponible cuando está seleccionado [Pos Custom].

\*2 No aparece cuando [F/R Pos] se ajusta en [OFF].

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## EQ10 Preset

Selecciona una curva del ecualizador entre 10 curvas de ecualizador o apagado: [OFF], [R & B], [Rock], [Pop], [Dance], [Hip-Hop], [Electronica], [Jazz], [Regueton], [Salsa], [Custom] (curva del ecualizador definida por "Sony | Music Center"). El ajuste de la curva de ecualizador se puede memorizar para cada fuente.

(Disponible cuando se selecciona cualquier fuente excepto el BT phone). (Automáticamente se configura en [OFF] cuando [Optical Out] está configurado en [48kHz] o [96kHz]). (No disponible durante la reproducción DSD nativa cuando esté seleccionada la opción USB-DAC).

---

## Balance

Permite ajustar el balance de sonido: [R-15] - [Center] - [L-15]. (Disponible cuando se selecciona cualquier fuente excepto el BT phone). (Automáticamente se configura en [OFF] cuando [Optical Out] está configurado en [48kHz] o [96kHz]).

---

## Fader

Permite ajustar el nivel relativo: [F-15] - [Center] - [R-15]. (Disponible cuando se selecciona cualquier fuente excepto el BT phone). (Automáticamente se configura en [OFF] cuando [Optical Out] está configurado en [48kHz] o [96kHz]).

---

## Loudness

Refuerza bajos y agudos para lograr un sonido claro en niveles reducidos de volumen: [OFF], [ON]. (No disponible durante la reproducción DSD nativa cuando esté seleccionada la opción USB-DAC).

---

## DSEE HX (motor potenciador HX de sonido digital)

Mejora el sonido comprimido digitalmente, ya que restaura las altas frecuencias que se pierden en el proceso de compresión. Este ajuste se puede memorizar para cada fuente diferente al sintonizador o AUX. Selecciona el modo DSEE HX: [OFF], [ON]. (Solo disponible cuando se encuentren seleccionados los modos USB1, USB2, USB-DAC o BT Audio). (Se configura automáticamente en [OFF] cuando [Optical Out] está seleccionado excepto por [OFF]). (No disponible durante la reproducción DSD nativa cuando esté seleccionada la opción USB-DAC).

---

## AUX Level

Ajusta el nivel de volumen de cada dispositivo auxiliar conectado: [+18dB] - [0dB] - [-8dB]. Este ajuste elimina la necesidad de ajustar el nivel de volumen entre fuentes.

---

---

## Configuración BLUETOOTH (BT Setting)

---

**BT Signal** (señal BLUETOOTH) (página 11)  
Activa/desactiva la función BLUETOOTH.

---

**Pairing** (emparejamiento por BLUETOOTH) (página 10)

---

**BT A Level** (nivel de volumen de audio BLUETOOTH)  
Ajusta el nivel de volumen de cada dispositivo BLUETOOTH conectado: [+6dB] - [0dB] - [-6dB]. Este ajuste elimina la necesidad de ajustar el nivel de volumen entre fuentes.

---

## Audio Codec

Selecciona el tipo de codec de audio para BLUETOOTH: [AUTO] (LDAC, AAC, SBC), [SBC]. (No disponible por "Sony | Music Center").

---

## Auto Answer

Selecciona esta unidad para contestar una llamada entrando de manera automática: [OFF], [3sec], [10sec].

---

## Ring Tone

Selecciona si esta unidad o el teléfono celular conectado emite el tono de llamadas: [TONE 1] (esta unidad), [TONE 2] (teléfono celular).

---

## BT Initialize

Inicia todos los ajustes relacionados con BLUETOOTH (información de emparejamiento, información de dispositivo, etc.): [NO], [YES]. Cuando desee la unidad, inicie todos los ajustes.

---

---

## Configuración de Sony | Music Center (Sony APP)

---

### Auto Launch

Activa el inicio automático de "Sony | Music Center": [ON], [OFF]. Cuando [ON] está seleccionado, "Sony | Music Center" se conectará automáticamente luego de que la conexión BLUETOOTH esté completa.

---

### Connect (página 17)

Establecer y finalizar la función "Sony | Music Center" (conexión).

---

## Configuración de salida óptica y de sonidos disponibles

Las configuraciones disponibles de sonidos difieren según la configuración de salida óptica y la fuente seleccionada.

	Optical Out	Tuner	USB1 (frontal), USB2 (posterior)	USB-DAC (PCM)	USB-DAC (DSD)	AUX1 (frontal)	AUX2 (nivel de entrada alto)	BT Audio	BT Phone
Subwoofer	OFF	✓	✓	✓	-	✓	✓	✓	-
	48 kHz, 96 kHz	-	-	-	-	-	-	-	-
Sub DSD	OFF	-	-	-	✓ (OFF, 150 Hz)	-	-	-	-
	48 kHz, 96 kHz	-	-	-	-	-	-	-	-
Pos Custom	OFF	✓	✓	✓	✓*	✓	✓	✓	-
	48 kHz, 96 kHz	-	-	-	-	-	-	-	-
Pos Preset	OFF	✓	✓	✓	✓	✓	✓	✓	-
	48 kHz, 96 kHz	-	-	-	-	-	-	-	-
EQ10 Preset	OFF	✓	✓	✓	-	✓	✓	✓	-
	48 kHz, 96 kHz	-	-	-	-	-	-	-	-
Balance	OFF	✓	✓	✓	✓	✓	✓	✓	-
	48 kHz, 96 kHz	-	-	-	-	-	-	-	-
Fader	OFF	✓	✓	✓	✓	✓	✓	✓	-
	48 kHz, 96 kHz	-	-	-	-	-	-	-	-
Loudness	OFF	✓	✓	✓	-	✓	✓	✓	-
	48 kHz, 96 kHz	-	-	-	-	-	-	-	-
DSEE HX	OFF	-	✓ Máx. 48 kHz	✓ Máx. 48 kHz	-	-	-	✓ Máx. 48 kHz	-
	48 kHz, 96 kHz	-	-	-	-	-	-	-	-

\* Solo [Subwoofer] en [Pos Custom] no está disponible.

## Información complementaria

### Actualizar el firmware

Para actualizar el firmware, visite el sitio de soporte técnico que figura en la contratapa, luego siga las instrucciones en línea.

La actualización del firmware tardará unos minutos en finalizar. Durante la actualización, no ponga el encendido en la posición OFF.

#### Nota

Es necesario el uso de un dispositivo USB (no suministrado) para actualizar el firmware. Guarde el archivo de actualización en el dispositivo USB, y conecte el dispositivo al puerto USB1 (frontal), y luego realice la operación de actualización. El puerto USB2 (trasero) no se puede utilizar para la actualización.

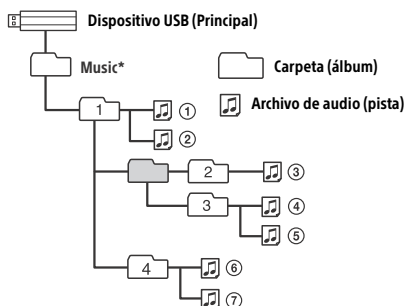
### Precauciones

- Deje que la unidad se enfríe antes de usarla si el automóvil ha estado estacionado bajo la luz directa del sol.
- No deje los dispositivos de audio dentro del vehículo o podría causar fallas en el funcionamiento debido a las altas temperaturas bajo la luz directa del sol.
- La antena de potencia se extiende automáticamente según el tipo de vehículo.
- Cuando se utilice la unidad en zonas frías, es posible que la rotación del controlador del volumen se sienta un poco más pesada.

#### Para mantener una alta calidad de sonido

No derrame ningún tipo de líquido sobre la unidad.

### Orden de reproducción de los archivos de audio



\* Para el nombre de la carpeta "Music" en el directorio raíz, no hay restricciones para el uso de las letras mayúsculas o minúsculas. ("Music", "music" y "MUSIC" son válidos.)

### Acerca de iPod

- Puede conectarse a los siguientes modelos de iPod. Actualice sus dispositivos iPod a la última versión de software antes de utilizarlos.

Modelos compatibles de iPhone/iPod

Modelo compatible	Bluetooth®	USB
iPhone 6	✓	✓
iPhone 6 Plus	✓	✓
iPhone 5s	✓	✓
iPhone 5c	✓	✓
iPhone 5	✓	✓
iPhone 4s	✓	✓
iPhone 4	✓	✓
iPhone 3GS	✓	✓
iPhone 3G		✓
iPod touch (5ª generación)	✓	✓
iPod touch (4ª generación)	✓	✓
iPod touch (3ª generación)		✓
iPod touch (2ª generación)		✓
iPod classic		✓
iPod nano (7ª generación)		✓
iPod nano (6ª generación)		✓
iPod nano (5ª generación)		✓
iPod nano (4ª generación)		✓
iPod nano (3ª generación)		✓

- El uso de la insignia Made for Apple significa que un accesorio ha sido diseñado para conectarse específicamente al producto o a los productos Apple identificados en la insignia, y ha sido certificado por el fabricante de que cumple las normas de rendimiento de Apple. Apple no se hace responsable por el funcionamiento de este dispositivo o su cumplimiento con normas de seguridad y regulatorias. Tenga en cuenta que el uso de este accesorio con un producto Apple puede afectar el rendimiento inalámbrico.

Si desea realizar alguna consulta o solucionar algún problema relativo a la unidad que no se traten en este manual, póngase en contacto con el distribuidor Sony más cercano.

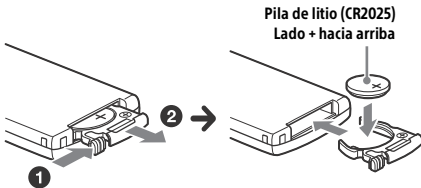
## Mantenimiento

### Sustitución de la pila de litio (CR2025) del control remoto

El alcance del control remoto disminuye a medida que se agota la pila.

#### PRECAUCIÓN

Peligro de explosión si la batería se reemplaza incorrectamente. Reemplazarla solamente con una igual o equivalente.



#### Nota sobre la pila de litio

Mantenga la pila de litio fuera del alcance de los niños. Si se ingiere, póngase en contacto inmediatamente con un médico.

#### ADVERTENCIA

La pila puede explotar si no se emplea adecuadamente.

No recargue la pila; tampoco la desmonte ni la arroje al fuego.

## Especificaciones

### Sección del sintonizador

#### FM

Rango de sintonización:

87,5 – 108,0 MHz (a pasos de 50 kHz)

87,5 – 108,0 MHz (a pasos de 100 kHz)

87,5 – 107,9 MHz (a pasos de 200 kHz)

Paso de sintonización FM:

cambiable entre 50 kHz/100 kHz/200 kHz

Terminal de antena:

Conector de antena externa

Frecuencia intermedia:

FM CCIR: -1 956,5 a -487,3 kHz y  
+500,0 a +2 095,4 kHz

Sensibilidad útil: 8 dBf

Selectividad: de 75 dB a 400 kHz

Relación señal-ruido: 73 dB

Separación: de 50 dB a 1 kHz

Respuesta de frecuencia: 20 – 15 000 Hz

#### AM

Rango de sintonización:

531 – 1 602 kHz (a pasos de 9 kHz)

530 – 1 710 kHz (a pasos de 10 kHz)

Paso de sintonización AM:

cambiable entre 9 kHz/10 kHz

Terminal de antena:

Conector de antena externa

Sensibilidad: 26  $\mu$ V

### Sección Reproductora de USB

Interfaz: USB (alta velocidad)

Máxima corriente: 1,5 A (en conformidad con norma USB BC1,2)

Número máximo de carpetas reconocibles: 997  
(incluyendo la carpeta "Music" en el directorio raíz)

Número máximo de pistas reconocibles: 10 000

Codec correspondiente:

MP3 (.mp3):

16/22,05/24/32/44,1/48 kHz, 16 – 320 kbps  
(CBR/VBR)

AAC (.m4a, .mp4, .3gp):

16/22,05/24/32/44,1/48/88,2/96 kHz,  
16 – 320 kbps (CBR/VBR)

WMA (.wma):

32/44,1/48 kHz, 16 – 320 kbps (CBR/VBR)

WAV (.wav):

16/22,05/24/32/44,1/48/88,2/96/176,4/  
192 kHz (16/24 bit)

AIFF (.aiff, .aif):

32/44,1/48/88,2/96/176,4/192 kHz (16/24 bit)

FLAC (.flac):

16/22,05/24/32/44,1/48/88,2/96/176,4/  
192 kHz (16/24 bit)

ALAC (.m4a):

16/22,05/24/32/44,1/48/88,2/96/176,4/  
192 kHz (16/24 bit)

DSD (DSF/DSDIFF)\* (.dsf, .dff):  
2,8 MHz (1 bit), 5,6 MHz (1 bit)

\* Mediante el puerto USB tipo-A, la conversión PCM se realiza durante la reproducción.

## Sección Reproductora de USB-DAC

Interfaz: USB micro B

Relación señal-ruido: 117 dB (a 1 kHz)

Respuesta de frecuencia: 20 Hz – 90 kHz (-3 dB)

Distorsión armónica: 0,007 % o inferior (a 1 kHz)

Interfaz de información, frecuencia de muestreo y profundidad de bit correspondientes:

PCM: Máx. 192 kHz/24 bit

DSD:

ASIO Native: 2,8 MHz/1 bit, 5,6 MHz/1 bit,  
11,2 MHz/1 bit\*

DoP: 2,8 MHz/1 bit, 5,6 MHz/1 bit

\* Reproducible sólo a través de un WALKMAN® que admita una salida digital.

## Comunicación inalámbrica

Sistema de comunicación:

BLUETOOTH versión estándar 3,0

Salida:

BLUETOOTH Clase 2 energía estándar  
(Máx. +4 dBm)

Rango máximo de comunicación:

Línea de visión aprox. 7 m\*1

Banda de frecuencias:

banda 2,4 GHz (2,4000 – 2,4835 GHz)

Método de modulación: FHSS

Perfiles de BLUETOOTH compatible\*2:

A2DP (Perfil de distribución de audio avanzado)  
1,3

AVRCP (Perfil de control remoto de audio y video) 1,5

HFP (Perfil manos libres) 1,6

SPP (Perfil de puerto serie)

Códec correspondiente:

SBC (.sbc), AAC (.m4a) y LDAC (.ldac)

\*1 El alcance real variará según factores, como los obstáculos entre los dispositivos, los campos magnéticos alrededor de un horno de microondas, la electricidad estática, la sensibilidad de recepción, el funcionamiento de la antena, el sistema operativo, la aplicación del software, etc.

\*2 Los perfiles estándar BLUETOOTH indican el propósito de la comunicación BLUETOOTH entre dispositivos.

## Generales

DAC (convertidor de audio digital) del dispositivo:  
ES9018S por ESS Technology, Inc.

Salidas:

Terminal de salidas de audio: (FRONT, REAR,  
SUB)

Antena de potencia/Terminal de control del  
amplificador de potencia (REM OUT)

Terminal de salida óptica

Entradas:

Terminal de entrada de alto nivel (3 V – 12 V)

Terminal de entrada del control remoto

Terminal de entrada de la antena

Terminal de entrada MIC

Toma de entrada AUX (minitoma estéreo)

Puerto USB tipo-A (frontal, posterior)

Puerto USB micro B

Requisitos de alimentación: batería de automóvil  
de cc 12 V (masa negativa)

Tasa de consumo actual: 10 A

Dimensiones:

Aprox. 178 mm × 50 mm × 167 mm  
(ancho/alto/profundidad)

Dimensiones de montaje:

Aprox. 182 mm × 53 mm × 154 mm  
(ancho/alto/profundidad)

Masa: Aprox. 1,5 kg

Contenidos del paquete:

Unidad principal (1)

Control remoto (1): RM-X261

Micrófono (1)

Componentes de instalación y conexiones  
(1 juego)

Cable USB (1)

El diseño y las especificaciones están sujetos a cambios sin previo aviso.

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## Solución de problemas

La siguiente lista de comprobación le ayudará a solucionar los problemas que puedan producirse con la unidad.

Antes de consultarla, revise los procedimientos de conexión y de funcionamiento.

Para más detalles sobre el uso del fusible y sobre cómo quitar la unidad del tablero, ver "Conexión/Instalación" (página 30).

Si el problema no se resuelve, visite el sitio web de soporte técnico que figura en la cubierta posterior.

### Generales

#### La unidad no recibe alimentación.

- Si la unidad está apagada y la pantalla desaparece, no se puede operar con el control remoto.
  - Encienda la unidad presionando en ella SRC.

#### No hay sonido o el sonido es muy bajo.

- La posición del control de equilibrio [Fader] no está ajustada para un sistema de 2 altavoces.
- El volumen de la unidad o dispositivo conectado es muy bajo.
  - Aumente el volumen de la unidad o del dispositivo conectado.

#### El contenido de la memoria se borró.

- El botón de reset ha sido presionado.
  - Almacene nuevamente dentro de la memoria.
- Se desconectó la batería o el cable de fuente de alimentación, o no están conectados correctamente.

#### Las emisoras almacenadas y la hora correcta se borrarán.

#### El fusible se fundió.

#### Se escucha un ruido cuando se cambia la posición de la llave de encendido.

- Los cables no se conectaron de forma correcta al conector de alimentación auxiliar del automóvil.

#### Las indicaciones desaparecen del visualizador o no aparecen en él.

- [Dimmer] (atenuador) está ajustado en [ON] (página 18).
- La pantalla se apaga si mantiene presionado OFF.
  - Presione y mantenga apretado SRC en la unidad hasta que se ilumine la pantalla.

#### La pantalla de visualización desaparecerá mientras la unidad esté en funcionamiento.

- [Black Out] (apagado) está configurado en [ON] (página 19).

---

**Los botones de operación no funcionan.**

- La conexión no es correcta.
  - Revise la conexión de la unidad.  
Si la situación persiste, presione el botón de reinicio (página 9).  
Los contenidos almacenados en la memoria son eliminados.  
Por su seguridad, no realice la restauración de la unidad mientras maneja.

---

**Recepción de radio****No es posible recibir emisoras.****El sonido está obstaculizado por los ruidos.**

- La conexión no es correcta.
  - Si su automóvil cuenta con una antena de radio incluida en el vidrio lateral o posterior, conecte un cable REM OUT (con rayas azules y blancas) o un cable de fuente de alimentación accesorio (rojo) al cable de fuente de alimentación del amplificador de señal de la antena del automóvil.
  - Compruebe la conexión de la antena del automóvil.
  - Si la antena del automóvil no se extiende, compruebe la conexión del cable de control de la antena motorizada.
- La configuración de paso de sintonización ha sido borrada.
  - Configure nuevamente el paso de sintonización (página 9).

---

**No es posible utilizar la sintonización programada.**

- La señal de emisión es demasiado débil.

---

**Reproducción en dispositivo USB****No es posible reproducir elementos a través de un concentrador USB.**

- Esta unidad no puede reconocer dispositivos USB a través de un concentrador USB.

---

**El dispositivo USB tarda en reproducirse.**

- El dispositivo USB contiene muchos archivos o una estructura de archivo compleja.

---

**El sonido es discontinuo.**

- El sonido puede ser intermitente en una tasa alta de bits.
- No se reproducen archivos DRM (Gestión de derechos digitales) en algunos casos.

---

**Un archivo de audio no puede reproducirse.**

- Los dispositivos USB formateados con sistemas de archivos distintos a FAT16, FAT32 o exFAT no son compatibles.\*

\* Esta unidad es compatible con FAT16, FAT32 y exFAT, pero es posible que algunos dispositivos USB no sean compatibles. Para detalles, refiérase a la instrucción de operación de cada dispositivo USB o contacte al fabricante.

---

**No se puede saltar a la pista anterior ni a la siguiente.**

- Mientras [\*] aparece luego de conectar el dispositivo USB, la unidad estará ocupada con la lectura de la estructura de archivos del dispositivo. Espere hasta que la lectura finalice.

---

**No se muestra la frecuencia de muestreo y profundidad de bit o las que se muestran no coinciden.**

- Revise que los contenidos del dispositivo USB incluyan la información de la frecuencia del muestreo y profundidad de bit.
- Espere un momento, luego presione DSPL nuevamente. La lectura de la información puede llevar tiempo.
- Cuando se conecta un iPod/iPhone a las terminales USB1 o USB2, no se muestran la frecuencia de muestreo y la profundidad de bits.

---

**Ciertos caracteres del nombre de la pista no se muestran.**

- Se utilizan caracteres no admitidos en el nombre de la pista.

---

**Reproducción en dispositivo USB DAC****No hay sonido.**

- Revise que el dispositivo compatible con audio USB de alta resolución y la unidad estén conectados correctamente.
- Revise que la configuración del dispositivo compatible con audio USB de alta resolución sea correcta.

---

**No se muestra la frecuencia de muestreo y profundidad de bit o las que se muestran no coinciden.**

- Compruebe que la configuración del software o de la aplicación de reproducción de audio y del dispositivo compatible con audio USB de alta resolución sea correcta.
- Espere un momento, luego presione DSPL nuevamente. La lectura de la información puede llevar tiempo.
- Según el software o aplicación de reproducción de audio, es posible que la profundidad de bit que aparece en la pantalla difiera de la real del archivo de audio.

---

**No se muestra el nombre de la pista.**

- Durante la reproducción USB DAC, no se muestran los nombres de las pistas.

## Funcionamiento de la computadora

### No hay sonido o el sonido no sale correctamente.

- La unidad no reconoce la computadora como un dispositivo USB.
  - Reinicie la computadora.
  - Instale el controlador de dispositivo “Sony USB Device Driver” en su Windows en caso de no encontrarse. Para obtener información acerca del controlador del dispositivo, visite el sitio de soporte técnico que figura en la contratapa. Para la instalación, busque en la guía de ayuda de su computadora.
- Suba el volumen de su computadora o software.
- La computadora está conectada a la unidad mientras el software de reproducción de audio está en uso.
  - Reinicie el software de reproducción de audio de su computadora.
- Revise que el software de reproducción de audio que se utiliza sea compatible con archivos de audio de alta resolución. Se recomienda el uso de “Hi-Res Audio Player” o “Media Go”. Para obtener más información, visite el sitio de soporte técnico que figura en la contratapa.
- La computadora entra en modo de espera, de suspensión o hibernación durante la reproducción.
  - Reinicie el software de reproducción de audio de su computadora.
- Revise que la configuración del dispositivo de sonido de su computadora sea correcta. Para más información, consulte el manual incluido con su computadora.
- Cancele la atenuación del sonido de su computadora o software de reproducción de audio.
- Revise que se utilice la función de compatibilidad de reproducción digital para la unidad de CD-ROM.

## Función NFC

### La conexión One touch (NFC) no es posible.

- La señal de BLUETOOTH de esta unidad no está encendida.
  - Mantenga apretado MENU en el control remoto, seleccione [BT Setting] → [BT Signal], y luego ENTER.
- Si el smartphone no responde al tacto.
  - Revise que la función NFC del smartphone esté encendida.
  - Mueva la parte marca N del smartphone de modo de acercarla a la parte marca N de esta unidad.
  - Si el smartphone se encuentra dentro de un estuche, quítelo.

- La sensibilidad de recepción NFC depende del dispositivo.

Si la conexión One touch con el smartphone falla varias veces, haga la conexión a BLUETOOTH en forma manual.

## Función BLUETOOTH

### El dispositivo de conexión no puede detectar esta unidad.

- Antes de realizar el emparejamiento, configure esta unidad en el modo de espera del emparejamiento.
- Mientras se conecta al otro dispositivo BLUETOOTH, esta unidad no puede detectarse desde otro dispositivo.
  - Desconecte la conexión actual y busque esta unidad desde otro dispositivo.
- Una vez realizado el emparejamiento del dispositivo, active la salida de señal de BLUETOOTH (página 11).

### No es posible realizar la conexión.

- La conexión se controla de un solo lado (esta unidad o dispositivo BLUETOOTH) pero no de ambos lados.
  - Conecte esta unidad a un dispositivo BLUETOOTH o viceversa.

### No aparece el nombre del dispositivo detectado.

- Según el estado del otro dispositivo, es posible que no se pueda obtener el nombre.

### No se emite ningún tono de llamada.

- Ajuste el volumen girando el selector de control mientras recibe una llamada.
- Según el dispositivo de conexión, es posible que el tono de llamada no se emita correctamente.
  - Seleccione [Ring Tone] en [TONE 1] (página 20).
- El tono de llamada se emite solamente desde el dispositivo de audio que se conecta a FRONT AUDIO OUT.
  - Conecte un dispositivo de audio a la salida FRONT AUDIO OUT de la unidad.

### No se puede ajustar el volumen de la voz de la persona que habla.

- La voz del parlante se emite solamente desde el dispositivo de audio que se conecta a FRONT AUDIO OUT.
  - Conecte un dispositivo de audio a la salida FRONT AUDIO OUT de la unidad.

### El interlocutor de una llamada le notifica que el volumen es demasiado bajo o demasiado alto.

- Ajuste el volumen según corresponda mediante la ganancia de micrófono (página 16).

---

**Se producen ecos o ruidos durante las conversaciones telefónicas.**

- Baje el volumen.
- Ajuste el modo EC/NC en [ECNC 1] o [ECNC 2] (página 16).
- Si el ruido ambiente que no sea el sonido de la llamada de teléfono es alto, intente reducir el ruido.  
Por ej.: si una ventana está abierta y se oye ruido de la calle, etc., fuerte, cierre la ventana. Si el aire acondicionado está alto, bájelo.

---

**La calidad de sonido del teléfono es baja.**

- La calidad del sonido del teléfono depende de las condiciones de recepción del teléfono celular.
  - Mueva el automóvil a un lugar en el que pueda mejorar la señal del teléfono celular si la recepción es de mala calidad.

---

**El volumen del dispositivo de audio conectado es bajo (alto).**

- El nivel de volumen cambiará dependiendo del dispositivo de audio.
  - Ajuste el volumen del dispositivo de audio conectado o de esta unidad.

---

**El sonido salta durante la reproducción de un dispositivo de audio BLUETOOTH.**

- Reduzca la distancia entre la unidad y el dispositivo de audio BLUETOOTH.
- Si el dispositivo de audio BLUETOOTH está guardado en un estuche que interrumpe la señal, retírelo mientras lo utilice.
- En los alrededores se están utilizando varios dispositivos BLUETOOTH u otros dispositivos que emiten ondas de radio.
  - Apague los otros dispositivos.
  - Aumente la distancia entre la unidad y los otros dispositivos.
- El sonido de reproducción se detiene momentáneamente mientras se establece la conexión entre esta unidad y el teléfono celular. No se trata de una falla de funcionamiento.

---

**No es posible controlar el dispositivo de audio BLUETOOTH conectado.**

- Compruebe que el dispositivo de audio BLUETOOTH conectado sea compatible con AVRCP.

---

**Algunas funciones no están disponibles.**

- Compruebe que el dispositivo de conexión sea compatible con las funciones en cuestión.

---

**Se contesta una llamada accidentalmente.**

- El teléfono conectado está configurado para responder una llamada automáticamente.

---

**El emparejamiento ha fallado porque se ha superado el tiempo establecido.**

- Según el dispositivo de conexión, es posible que el tiempo para el emparejamiento sea escaso.
  - Intente completar el emparejamiento en el tiempo establecido.

---

**No es posible utilizar la función BLUETOOTH.**

- Apague la unidad presionando OFF durante más de 2 segundos, luego vuelva a encender la unidad.

---

**Durante la llamada con manos libres, los altavoces del automóvil no emiten ningún sonido.**

- Si el sonido de salida viene del teléfono celular, ajuste el teléfono para que el sonido se emita por los altavoces del automóvil.

---

**No se muestra el nombre de la pista.**

- A través de BLUETOOTH, no se muestran los nombres de las pistas.

---

**No se muestra el nombre del emisor de la llamada.**

- Si el nombre del emisor de la llamada no está registrado en el smartphone, se mostrará en cambio el número de teléfono.

---

**Operación Sony | Music Center**

---

**El nombre de la aplicación no coincide con la aplicación real en “Sony | Music Center”.**

- Inicie la aplicación nuevamente desde la aplicación “Sony | Music Center”.

---

**Cuando ejecute la aplicación “Sony | Music Center” mediante BLUETOOTH, la pantalla cambia automáticamente a [BT Audio].**

- La aplicación “Sony | Music Center” o la función BLUETOOTH han fallado.
- Ejecute la aplicación nuevamente.

---

**La aplicación “Sony | Music Center” se desconecta automáticamente cuando la pantalla cambia a [iPod1] o [iPod2].**

- La aplicación “Sony | Music Center” para iPhone/iPod no admite la reproducción en iPod.
  - Cambie la fuente de la unidad a otra que no sea [iPod1] o [iPod2], luego establezca la conexión “Sony | Music Center” (página 17).

## Mensajes/indicaciones de error

---

### Para reproducción en dispositivo USB

---

**Device Error:** No puede reproducirse el dispositivo USB.

→ Conecte el dispositivo USB nuevamente.

**No Device:** No reconoce un dispositivo USB o no está conectado.

→ Asegúrese de que el dispositivo USB o el cable USB esté conectado de forma segura.

→ No se encuentra disponible un dispositivo USB en modo MTP.

– Configure el modo de conexión USB a MSC.

**No Music:** No hay ningún archivo apto para reproducir.

→ Conecte un dispositivo USB que contenga archivos reproducibles (página 23).

→ Verifique que la carpeta "Music" se encuentre directamente bajo el directorio principal del dispositivo USB y que los archivos reproducibles se almacenen en la carpeta.

**No Output:** La señal de sonido no sale de la terminal OPTICAL OUT.

→ No sale sonido de la terminal OPTICAL OUTPUT mientras la reproducción DSD nativa es realizada mediante el puerto USB micro B.

**No Support:** El dispositivo USB no es compatible.

→ Para obtener más información acerca de la compatibilidad del dispositivo USB, visite el sitio web de soporte técnico que figura en la contratapa.

→ Los concentradores (hubs) USB no son compatibles.

**Overload:** El dispositivo USB se encuentra sobrecargado.

→ Desconecte el dispositivo USB, luego presione SRC para seleccionar otra fuente.

→ El dispositivo USB tiene una falla, o se ha conectado un dispositivo incompatible.

**Please Wait:** Se está leyendo la información.

→ Espere hasta que finalice la lectura y se inicie la reproducción automáticamente. Esto puede tardar un poco según la estructura de la información.

### Acerca de la función BLUETOOTH:

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**No Device:** No reconoce un dispositivo BLUETOOTH o no está conectado.

→ Asegúrese de que el dispositivo BLUETOOTH esté firmemente conectado o la conexión BLUETOOTH esté establecida con el dispositivo BLUETOOTH.

## Para la operación Sony | Music Center:

---

**APP List:** La lista de contenidos del dispositivo USB está abierta.

→ Salga de la lista de la aplicación para permitir la operación del botón.

**APP Menu:** Una pantalla de configuración de la aplicación está abierta.

→ Salga de la pantalla de configuración de la aplicación para permitir la operación del botón.

**Disconnect:** La aplicación está desconectada.

→ Realice la conexión "Sony | Music Center" (página 17).

**Open App:** La aplicación "Sony | Music Center" no está funcionando.

→ Abra la aplicación.

**Settings:** Se encuentra abierta una visualización de configuración de sonido, general o de BLUETOOTH.

→ Salga de la pantalla de configuración de la aplicación para permitir la operación del botón.

Si estas soluciones no ayudan con el problema, póngase en contacto con el distribuidor Sony más cercano.

### Advertencias

- **Conecte todos los cables hacia un punto a tierra en común.**
- No deje que los cables queden atrapados debajo de un tornillo o que se enganchen en piezas móviles.
- Antes de hacer conexiones, apague el auto para evitar cortocircuitos.
- Al realizar las conexiones eléctricas, asegúrese de conectar el conector ⑦ primero, y luego el conector ⑧.
- Conecte los cables **amarillo** y **rojo** del sistema de alimentación únicamente después de que todos los demás cables hayan sido conectados.
- Asegúrese de aislar cualquier cable suelto sin conexión con cinta aislante para mayor seguridad.

### Para su seguridad

Para evitar un accidente de tránsito, asegúrese de que los cables conectados no interfieran con el sistema de bolsa de aire o con la correcta conducción del automóvil.

### Precauciones

- Elija la ubicación de la instalación con cuidado para que la unidad no interfiera con las operaciones de conducción normales.
- Evite instalar la unidad en áreas expuestas a polvo, tierra, vibración excesiva o alta temperatura, como luz solar directa o cerca de calefactores.
- Utilice solamente el hardware de montaje suministrado para obtener una instalación segura.

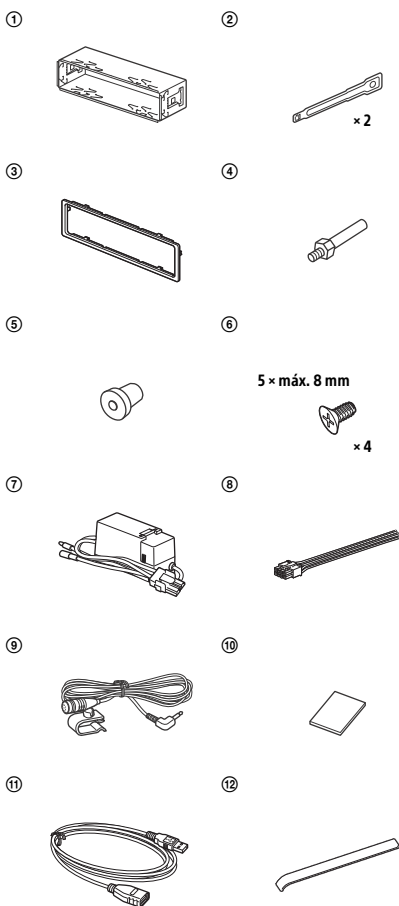
### Observe el cable del sistema de alimentación (amarillo)

Cuando conecte esta unidad junto con otros componentes estéreo, la capacidad nominal de la corriente del circuito del auto al cual la unidad se encuentra conectada debe ser mayor que la suma de la capacidad nominal del fusible de cada componente.

### Montar el ajuste del ángulo

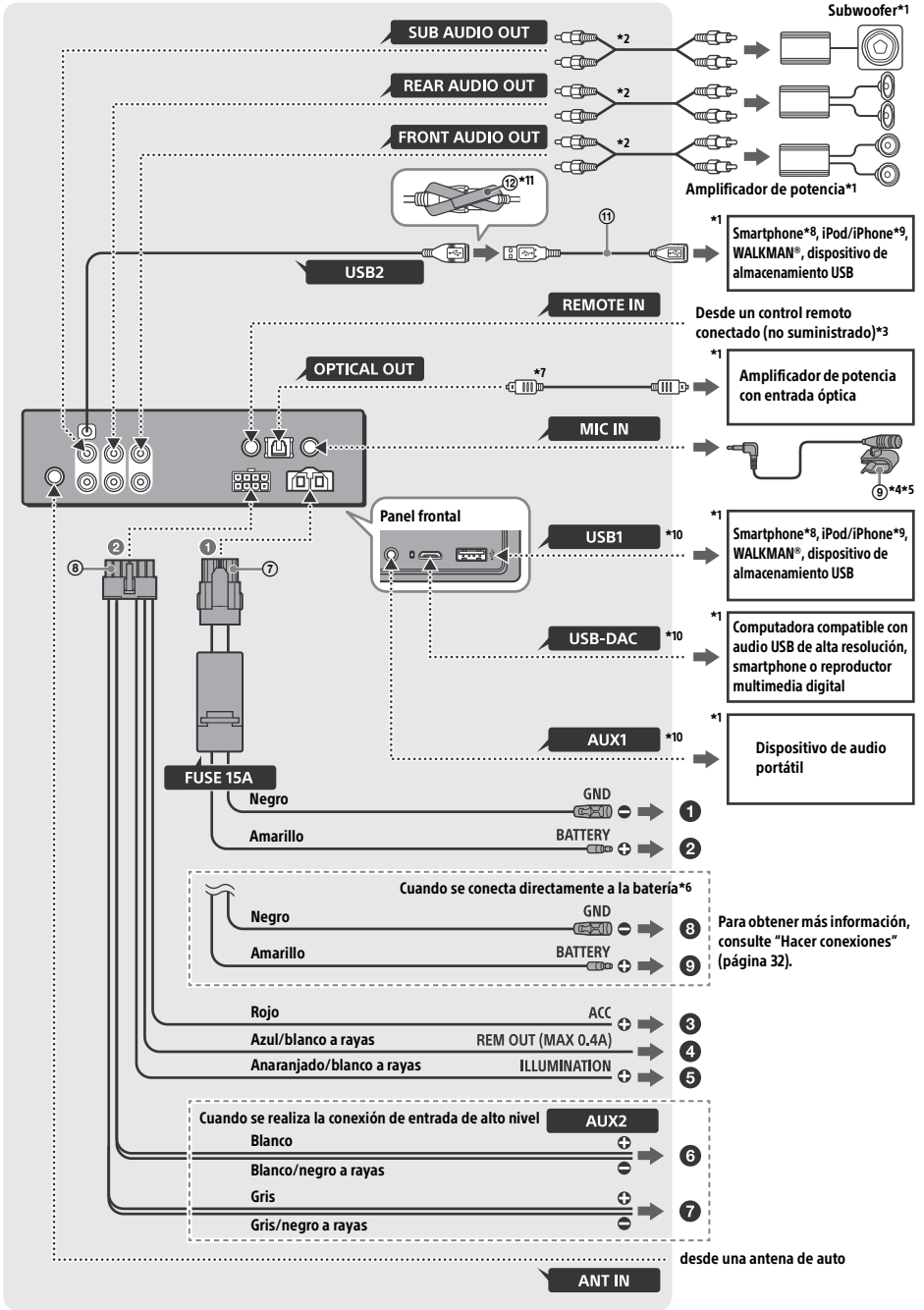
Ajustar el ángulo de montaje a menos de 45°.


## Lista de piezas para la instalación

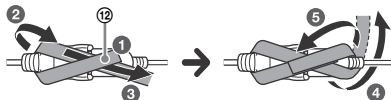


- Esta lista de piezas no incluye todo el contenido del paquete.
- El soporte ① y el marco de protección ③ se unen a la unidad antes del envío. Antes de montar la unidad, utilice las claves de liberación ② para quitar el soporte ① de la unidad. Para obtener más información, consulte "Quitar el marco de protección y el soporte" (página 34).
- Conserve las claves de liberación ② para un uso futuro ya que son también necesarias si quita la unidad de su auto.

# Conexión



- \*1 No suministrado
- \*2 Cable con clavija RCA (no suministrado)
- \*3 Dependiendo del tipo de automóvil, utilice un adaptador para un control remoto conectado (no suministrado).
- \*4 Ya sea que esté en uso o no, oriente el cable de entrada del micrófono de modo tal que no interfiera con las operaciones de manejo. Asegure el cable con una abrazadera, si está instalado alrededor de sus pies.
- \*5 Para obtener más detalles sobre la instalación del micrófono, consulte "Instalación del micrófono" (página 33).
- \*6 Cuando la capacidad nominal de la corriente del fusible utilizado en su vehículo sea de 10 A, realice la conexión eléctrica a la batería directamente para evitar cortocircuitos.
- \*7 Cuando se realiza la conexión óptica, se requiere un cable óptico (no suministrado).
- \*8 Para conectar un smartphone a la unidad principal, se requiere de un cable apropiado (no suministrado).
- \*9 Para conectar un iPod/iPhone, utilice el cable de conexión USB para iPod (no suministrado).
- \*10 Para más información sobre la conexión, consulte "Guía para la conexión de un dispositivo de audio" (página 7).
- \*11 Para asegurar los conectores, envuelva el velcro  alrededor del cuello de estos, luego una las puntas de velcro.



## Hacer conexiones

- 1 Para un punto de puesta a tierra**  
Primero conecte el conector a tierra, luego conecte los cables amarillo y rojo del sistema de alimentación.
- 2 A la terminal de potencia +12 V que se encuentra energizada en todo momento**  
Asegúrese de conectar primero el cable a tierra negro a un punto de puesta a tierra.
- 3 A la terminal de potencia +12 V que se encuentra energizada cuando el interruptor de encendido se encuentra fijo en la posición accesorio**  
Si no existe la posición accesorio, conecte la terminal de potencia +12 V (batería) la cual se encuentra energizada en todo momento. Asegúrese de conectar primero el cable a tierra negro a un punto de puesta a tierra.
- 4 Al cable de control de la antena motorizada o al cable de la fuente de alimentación del amplificador**  
No es necesario conectar este cable si no hay antena motorizada o al amplificador de la antena, o con una antena telescópica operada manualmente.

### Para AMP REMOTE IN de un amplificador de potencia opcional

Esta conexión se usa solamente para amplificadores y para una antena motorizada. Conectar cualquier otro sistema puede dañar la unidad.

- 5 Para la señal de iluminación de un automóvil**  
Asegúrese de conectar primero el cable a tierra negro a un punto de puesta a tierra.

### Cuando se realiza la conexión de entrada de alto nivel

Para obtener más información, consulte "Conexión de entrada de alto nivel" (página 33).

- 6 Al parlante de salida izquierdo (blanco) de un dispositivo de audio**
- 7 Al parlante de salida derecho (gris) de un dispositivo de audio**

### Cuando se conecta directamente a la batería

Cuando la capacidad nominal de la corriente del fusible utilizado en su vehículo sea de 10 A, realice la conexión eléctrica a la batería directamente para evitar cortocircuitos.

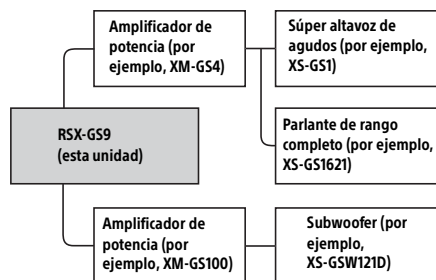
- 8 A una punta metálica del vehículo**
- 9 A la terminal positiva de la batería**

#### Notas

- Aun conectada al cable de la fuente de alimentación de su vehículo, es posible que la unidad no funcione correctamente debido a falta de potencia. De ser el caso, realice la conexión eléctrica a la batería directamente.
- Asegúrese de que los cables de la batería conectados a su vehículo (tierra a chasis) son de un calibre al menos igual al del cable principal de energía conectado de la batería a la unidad de cabecera.

Si tiene preguntas o problemas respecto a la conexión, consulte con su vendedor para obtener más información.

## Sistema de audio USB de alta resolución recomendado



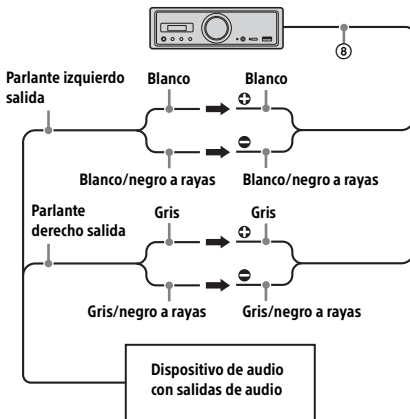
#### Nota

Es posible que algunos productos que se muestran en el diagrama no estén disponibles en su país o región.



## Conexión de entrada de alto nivel

Para obtener más información sobre la conexión, consulte el manual incluido con su equipo de audio.



## Conexión óptica

- Esta conexión OPTICAL OUT está diseñada para conectar un amplificador de potencia con una entrada óptica. Cuando se conecte otro dispositivo digital, es posible que las funciones del dispositivo no funcionen normalmente.
- Cuando realice las conexiones, no doble el cable óptico (no suministrado). Hacerlo puede impedir la salida de sonido.
- Cuando se realice la conexión óptica:
  - configurar [Optical Out] a [48kHz] o [96kHz] para habilitar la función.
  - los controles de volumen de la unidad o el control remoto no funcionan.
  - [Subwoofer], [Pos Custom], [Pos Preset], [EQ10 Preset], [Balance], [Fader], [Loudness] y [DSEE HX] se ajustan automáticamente a [OFF].
  - No sale sonido mientras la reproducción DSD nativa se realiza mediante el puerto USB micro B.

## Conexión del amplificador de potencia

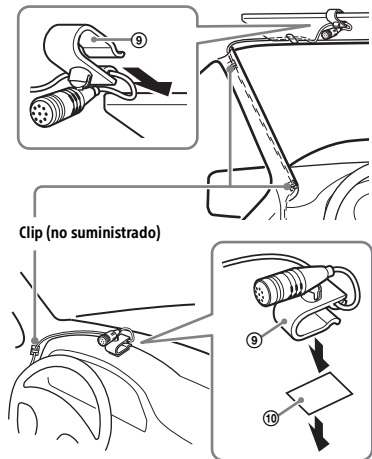
Deje de utilizar la unidad y el amplificador de potencia que no sea compatible con audio de alta resolución cuando se genere un ruido anormal.

## Conexión para sostener la memoria

Cuando el cable de la fuente de alimentación amarillo está conectado, la alimentación siempre abastecerá al circuito de la memoria incluso cuando el interruptor de encendido se encuentre apagado.

## Instalación del micrófono

Para capturar su voz durante una llamada con manos libres, necesita instalar el micrófono ⑨.



## Advertencias

- Es extremadamente peligroso si el cable se enreda alrededor de la columna de dirección o palanca de cambio. Asegúrese de que éste y otras piezas no interfieran con sus operaciones de manejo.
- Si en su automóvil tiene airbags u otro equipo para amortiguar golpes, contacte a la tienda donde compró esta unidad o al vendedor del auto, antes de la instalación.

## Nota

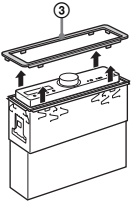
Antes de pegar la cinta doble faz ⑩, limpie la superficie del tablero con un paño seco.

# Instalación

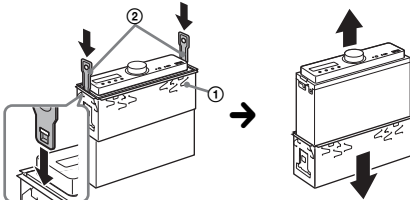
## Quitar el marco de protección y el soporte

Antes de instalar la unidad, quite el marco de protección ③ y el soporte ① de la unidad.

- 1 Apriete ambos ejes del marco de protección ③, luego retírelo.



- 2 Inserte ambas llaves ② hasta que hagan clic y empuje el soporte ①, luego retire la unidad para separar.

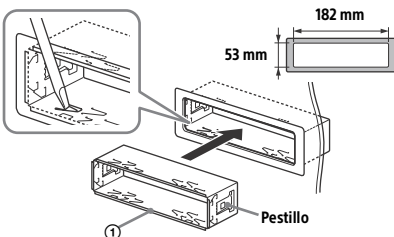


Coloque el gancho hacia adentro.

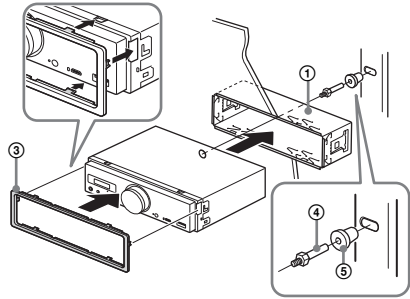
## Montar la unidad en el panel

Antes de efectuar la instalación, asegúrese de que los pestillos en ambos lados del soporte ① estén doblados hacia adentro 2 mm. Cuando lo instale en un auto japonés, consulte "Montar la unidad en un auto japonés" (página 34).

- 1 Coloque el soporte ① dentro del panel, luego doble las pinzas hacia afuera hasta que queden bien ajustadas.



- 2 Monte la unidad dentro del soporte ①, luego una el marco de protección ③.



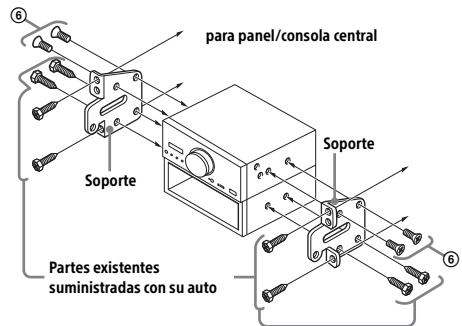
### Notas

- Si los pestillos están derechos o doblados hacia afuera, la unidad no se instalará de manera segura y se puede salir.
- Asegúrese de que los 4 pestillos en el marco de protección ③ se encuentren sujetados correctamente a las ranuras de la unidad.

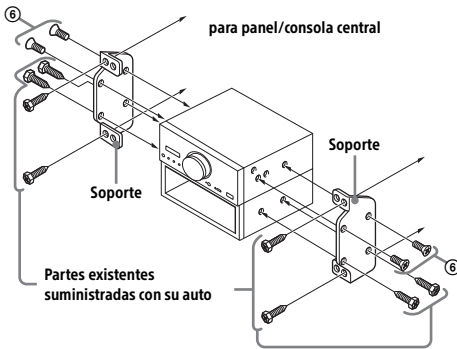
## Montar la unidad en un auto japonés

Tal vez no pueda instalar esta unidad en algunas marcas de autos japoneses. En dicho caso, consulte con su distribuidor Sony.

### TOYOTA



## NISSAN



### Nota

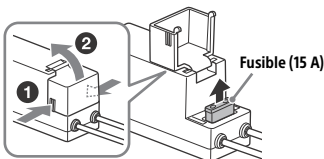
Para evitar el mal funcionamiento, instale la unidad solamente con los tornillos suministrados ⑥.

## Reinicio de la unidad

Para obtener más información, consulte "Reinicio de la unidad" (página 9).

## Reemplazo del fusible

Cuando reemplace el fusible, asegúrese de utilizar uno que coincida con la capacidad nominal del fusible original. Si el fusible se quema, verifique la conexión eléctrica y reemplace el fusible. Si el fusible se quema nuevamente después de reemplazarlo, puede haber un mal funcionamiento interno. En ese caso, consulte con su distribuidor Sony más cercano.



### Nota

Utilice una herramienta adecuada para reemplazar el fusible.

## Important information on software

This section covers the software used by this unit.

## Información importante sobre el software

Esta sección brinda información sobre el software utilizado en esta unidad.

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#### Package List

Linux kernel  
bash  
busybox  
coreutils  
dibbler-client  
DirectFB  
e2fsprogs  
findutils  
gawk  
glibc  
grep  
gzip  
inetutils  
iproute2  
libiconv  
libmtp  
libnl  
libusb  
libusb-compat  
linux-fusion  
module-init-tools  
mtd-utils  
procps  
psmisc  
sawman  
sed  
squashfs  
sysvinit  
tar  
u-boot  
Wireless Tools

The source code for the above-listed software is available on the Web. To download, please access the following URL:  
<http://oss.sony.net/Products/Linux>  
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Version 2, June 1991

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software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty, and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

### Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated

straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990  
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Version 2.1, February 1999

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is

little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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## protobuf

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February 14, 2009

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## zlib

zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.3, July 18th, 2005

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## PCRE

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

Release 8 of PCRE is distributed under the terms of the "BSD" licence, as specified below. The documentation for PCRE, supplied in the "doc" directory, is distributed under the same terms as the software itself.

The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

## THE BASIC LIBRARY FUNCTIONS

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