

Personal Audio System

Operating Instructions

Manual de instrucciones

http://www.sony.net/



ZS-PS30CP

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to dripping or splashing, and do not place objects filled with liquids, such as vases, on the apparatus.

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As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately.

The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

The nameplate and important information concerning safety are located on the bottom exterior.

Note on DualDiscs

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

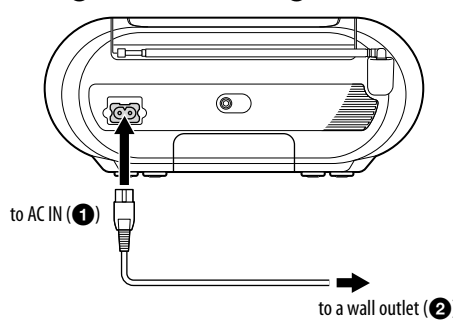
Music discs encoded with copyright protection technologies

This product is designed to playback discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.

Power sources

To connect the AC power cord
Connect the AC power cord to the unit (1) and the wall outlet (2).



Specifications

CD player section

System
Compact disc digital audio system
Laser diode properties
Emission duration: Continuous
Laser output: Less than 44.6 μW
(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pickup block with 7 mm aperture.)
Number of channels: 2
Frequency response
20 Hz - 20,000 Hz ±1/-2 dB
Wow and flutter
Below measurable limit

Radio section

Frequency range
FM: 87.5 MHz - 108 MHz (50 kHz/100 kHz step)
AM: 531 kHz - 1,602 kHz (9 kHz step)
530 kHz - 1,610 kHz (10 kHz step)
Antennas
FM: telescopic antenna
AM: Built-in ferrite bar antenna

USB section

Supported bit rate
MP3 (MPPEG 1 Audio Layer-3): 32 kbps - 320 kbps (VBR)
Sampling frequencies
MP3 (MPPEG 1 Audio Layer-3): 32,44,148.8 kHz
- (USB port)
- (USB-A Full Speed)

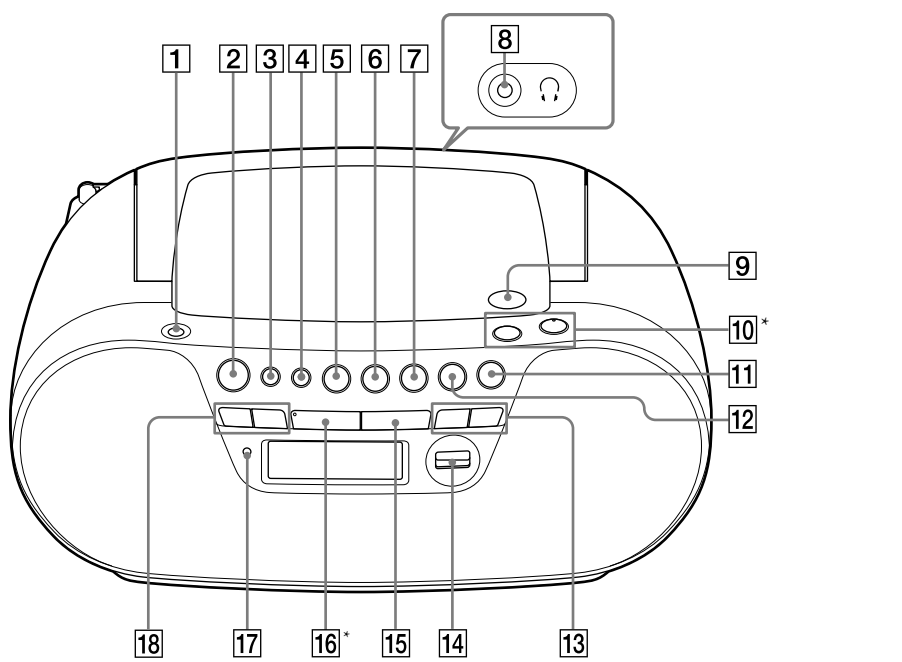
General

Speaker
Full range: 8 cm dia., 8 Ω, cone type (2)
Outputs
Headphones jack (stereo minijack): For 16 Ω - 32 Ω impedance headphones
Input
AUDIO IN jack (stereo minijack)
- (USB port) Type A, maximum current 500 mA
Power output
1.0 W + 1.0 W (at 8 Ω, 10% harmonic distortion)
Power requirements
For CD radio:
220 V, 230 V AC, 50 Hz
Power consumption
AC 1 W
Dimensions
Approx. 299 mm × 126 mm × 210 mm (w/h/d) (incl. projecting parts)
Mass
Approx. 2 kg
Supplied accessory
AC power cord (1)
Design and specifications are subject to change without notice.

Optional accessories

Sony MDR headphones series

Basic Operations



Before using the unit

To turn on/off the power
Press POWER (2).

Note
When turning on the power, hold down POWER (2) until OPERATE indicator (17) lights up.

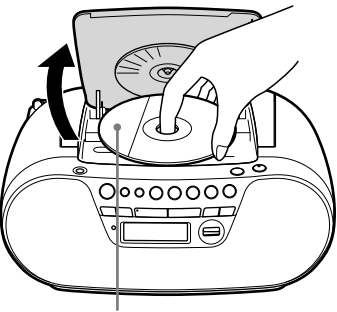
To adjust the volume
Press VOL + (8), (9).

To listen through headphones
Connect the headphones to the (1) (headphones) jack (8) on the back of the unit.

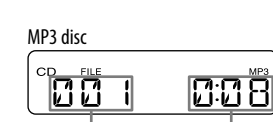
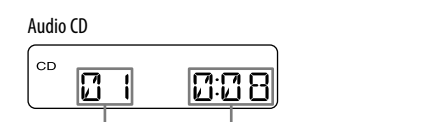
Playing a CD/MP3 disc

- Press POWER (2).
- Press CD (6).
- Press PUSH OPEN/CLOSE (▲) (9), and place a disc with the label side up on the CD compartment.

To close the CD compartment, press PUSH OPEN/CLOSE (▲) (9).



The unit plays all the tracks/MP3 files once. When you play an MP3 disc, the MP3 indicator lights up after the unit has read the file information.



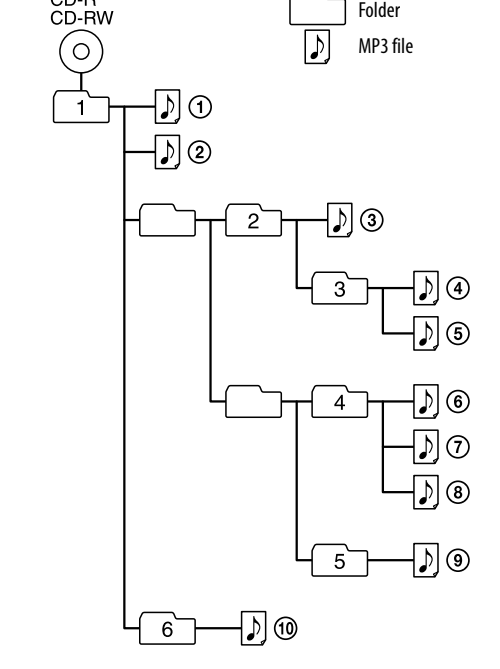
* If there is no folder, "ROOT" appears in the display.
* If there is no song title in ID3 tag information, "NO TITLE" will be displayed.
* If the playing time is more than 100 minutes, "--:--" appears in the display.

To
Pause playback
Press PAUSE (11). To resume play, press it again.
Stop playback
Press STOP (12).
Go to the next track/MP3 file
Press NEXT (13).
Go back to the previous track/MP3 file
Press PREVIOUS (14).
Select a folder on an MP3 disc
Press TUNE + (18) to go forward and TUNE - (17) to go backward.
Locate a point (13) (forward) or (14) (backward) while listening to the sound
Locate a point (13) (forward) or (14) (backward) while observing (18) in pause and hold it until you find the point you want to play. Press PAUSE (11).
Remove the CD
Press PUSH OPEN/CLOSE (▲) (9).

Tips
* Playback starts from the track/MP3 file you last stopped playing (Resume play). During stop, the track/MP3 file number to be played is displayed.
* To cancel the resume play to start play from the beginning of the first track/MP3 file, press (13) while the CD is stopped. When you open the CD compartment, resume play is cancelled. If the unit is turned off while the AC power cord is connected, resume play will not be cancelled.

Example of folder structure and playing order

The playing order of the folders and files is as follows:



Notes on MP3 discs

- When the disc is inserted, the unit reads all the files on that disc. During this time, "READING" is displayed. If there are many folders or non-MP3 files on the disc, it may take a long time for play to begin or for the next MP3 file to start to play. We recommend that you do not save unnecessary folders or files other than MP3 ones in the disc to be used for MP3 listening.
- A folder that does not include an MP3 file is skipped.
- Maximum number of files: 511
- Maximum number of folders: 256 (including the root folder)
- Maximum number of folders and files in total: 512
- Maximum directory levels: 8
- Folder names and file names can be displayed with up to 64 characters including quotation marks.
- The characters A - Z, 0 - 9 and . can be displayed on this unit. Characters a - z are displayed as . Z (capitalized), other characters are displayed as " _".
- This unit conforms to Version 1.0, 1.1, 2.2, 2.3 and 2.4 of the ID3 tag format. When the file has the ID3 tag information, song title, artist name and album name can be displayed. If the file does not have ID3 tag information, "NO TITLE" appears instead of song title, "NO ARTIST" appears instead of artist name, and "NO ALBUM" appears instead of album name. The ID3 tag information can be displayed with up to 30 characters.
- When naming, be sure to add the file extension ".mp3" to the file name.
- If you put the extension ".mp3" to a file other than an MP3 file, the unit cannot recognize the file properly and will generate random noise that could damage your speakers.
- The file name does not correspond to the ID3 tag.

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ADVERTENCIA

Para reducir el riesgo de incendio o descarga eléctrica, no exponga este aparato a la lluvia ni a la humedad.

Para reducir el riesgo de incendio, no cubra los agujeros de ventilación del aparato con periódicos, manteles, cortinas, etc., y no ponga velas encendidas encima del aparato.

Para reducir el riesgo de incendio o descarga eléctrica, no exponga nunca el aparato a salpicaduras ni coloque sobre el objetos que contengan líquido, como jarrones. Dado que el enchufe principal se utiliza para desconectar la unidad de la red eléctrica, conecte la unidad a una toma de corriente de CA fácilmente accesible. Si nota algo anormal en la unidad, desconecte la clavija principal de la toma de corriente de CA inmediatamente.

La unidad no estará desconectada de la fuente de alimentación de CA (toma de corriente) mientras esté conectada a la toma de pared, aunque esté apagada.

No instale el aparato en un espacio cerrado, como una estantería para libros o un armario empotrado.

Tanto la placa de identificación como la información importante concerniente a la seguridad están situadas en la parte inferior exterior.

Nota sobre discos DualDisc

Un DualDisc es un disco de dos caras que combina material grabado en DVD en una cara con material de audio digital en la otra cara. Sin embargo, como el lado del material de audio no cumple con la norma disco compacto (CD), no es seguro que la reproducción pueda hacerse en este producto.

Discos de música codificados mediante tecnologías de protección de los derechos de autor

Este producto se diseñó para reproducir discos que cumplen con el estándar disco compacto (CD). Recientemente, algunas compañías discográficas comercializan discos de música codificados mediante tecnologías de protección de derechos de autor. Tenga en cuenta que, entre estos discos, algunos no cumplen con el estándar disco compacto, por lo que no podrán reproducirse mediante este producto.

Tecnología de codificación de audio MPEG Layer-3 y patentes bajo licencia de Fraunhofer IIS y Thomson.

Especificaciones

Reproductor de discos compactos

Systema
Sistema de audio digital de discos compactos
Propiedades del diodo láser
Duración de la emisión: continua
Salida de láser: menos de 44.6 μW
(El valor de salida es el valor medio medido a una distancia de aproximadamente 200 mm de la superficie del objetivo del bloque de registro óptico con una apertura de 7 mm.)
Número de canales: 2
Respuesta de frecuencia
20 Hz - 20,000 Hz ±1/-2 dB
Fluctuación y rizado
Por debajo de los límites medibles

Radio

Gama de frecuencias
FM: 87.5 MHz - 108 MHz (en pasos de 50 kHz/100 kHz)
AM: 531 kHz - 1,602 MHz (en pasos de 9 kHz)
530 kHz - 1,610 kHz (en pasos de 10 kHz)

Sección USB

Velocidad de transmisión admitida
MP3 (MPPEG 1 Audio Layer-3): 32 kbps - 320 kbps (VBR)
Frecuencias de muestreo
MP3 (MPPEG 1 Audio Layer-3): 32,44,148.8 kHz
- (Puerto USB)
- (USB-A (velocidad))

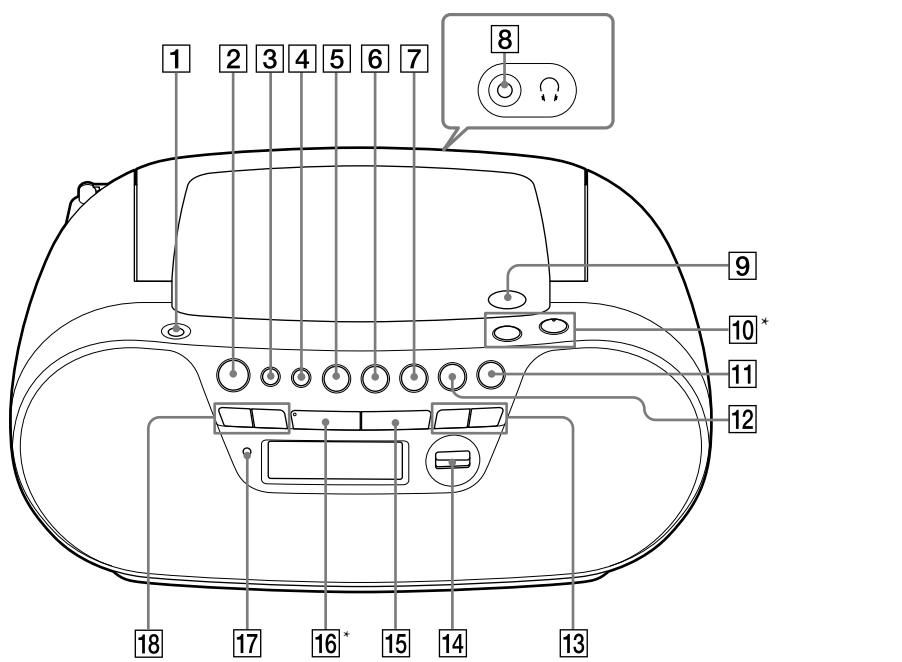
Generales

Altavoz
Sistema completa: 8 cm de diámetro, 8 Ω, tipo cóncavo (2)
Salidas
Toma de auriculares (mínimo estéreo): para auriculares de 16 Ω a 32 Ω de impedancia
Entrada
Toma AUDIO IN (mínimo estéreo)
- Puerto USB (tipo A, corriente máxima de 500 mA)
Salida de potencia
1.0 W + 1.0 W (con 8 Ω, 10% de distorsión armónica)
Requisitos de alimentación
Para radio CD:
220 V, 230 V CA, 50 Hz
Consumo de potencia
11 W (conectada a toma corriente de CA)
Dimensiones
Aprox. 299 mm × 126 mm × 210 mm (an/al/gf) (incluidas las partes salientes)
Peso
Aprox. 2 kg
Accesorios suministrados
Cable de alimentación de CA (1)
El diseño y las especificaciones están sujetos a cambios sin previo aviso.

Accesorios opcionales

Auriculares de la serie MDR de Sony

Operaciones básicas



Antes de utilizar la unidad

Para encenderla o apagarla
Pulse POWER (2).

Nota
Cuando active la alimentación, mantenga pulsado POWER (2) hasta que el indicador OPERATE (17) se ilumine.

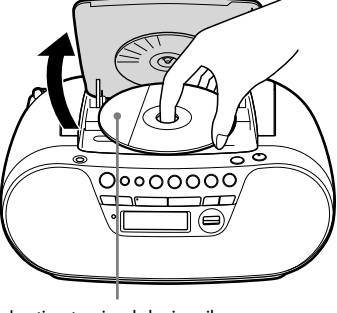
Para ajustar el volumen
Pulse VOL + (8), (9).

Para escuchar a través de los auriculares
Conecte los auriculares a la toma (1) (auriculares) (8) en la parte posterior de la unidad.

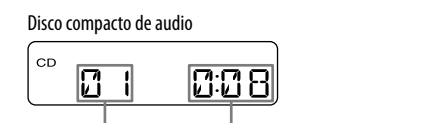
Reproducción de un disco compacto o un disco con MP3

- Press POWER (2).
- Press CD (6).
- Press PUSH OPEN/CLOSE (▲) (9) and place a disc on the unit with the label side up on the CD compartment.

Para cerrar el compartimento de discos compactos, pulse PUSH OPEN/CLOSE (▲) (9).



4 Pulse (11) (18).
La unidad reproduce todas las pistas o archivos MP3 una vez.
Al reproducir un disco de MP3, el indicador MP3 se ilumina una vez que la unidad ha leído la información de los archivos.



* Si no hay ninguna carpeta, aparecerá "ROOT" en el visor.
* Si la información del indicador ID3 no contiene ningún título de canción, aparecerá "NO TITLE".
* Si el tiempo de reproducción es superior a 100 minutos, aparecerá "--:--" en el visor.

Para
Insertar una pausa en la reproducción
Pulse PAUSE (11). Para reanudar la reproducción, pulselo otra vez.
Detener la reproducción
Pulse STOP (12).
Ir a la siguiente pista o archivo MP3
Pulse NEXT (13).
Volver a la pista o archivo MP3 anterior
Pulse PREVIOUS (14).
Seleccionar una carpeta en un disco de MP3
Pulse TUNE + (18) para avanzar y TUNE - (17) para retroceder.

Localizar un punto (13) (hacia adelante) o (14) (hacia atrás) (18) durante la reproducción el sonido y manténgalo pulsado hasta que encuentre el punto.
Localizar un punto (13) (hacia adelante) o (14) (hacia atrás) (18) con la unidad en modo de pausa y manténgalo pulsado hasta que encuentre el punto y, a continuación, pulse (11) (18).
Retirar el disco compacto
Pulse PUSH OPEN/CLOSE (▲) (9).

Supercargas
Si una emisión de FM presenta ruido, el cambio del estado actual a monoaural normalmente lo reduce.
1 Pulse MODE (3).
Aparecerá "STEREO" o "MONO".
2 Mientras se visualiza "STEREO", pulse MODE (3) para que aparezca "MONO".

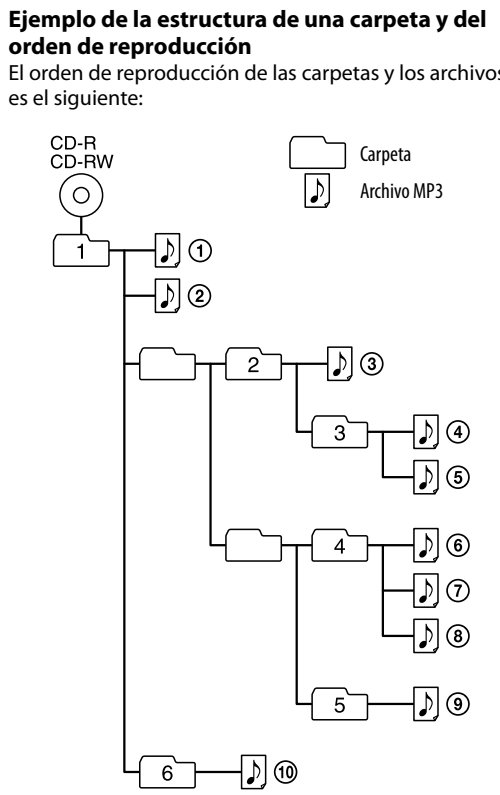
Cambio del intervalo de sintonización de FM/AM
Si necesita cambiar el intervalo de sintonización de FM/AM, proceda de la forma siguiente:
1 Pulse POWER (2).
2 Pulse RADIO BAND (7) para seleccionar la banda que desee.
3 Pulse MANUAL PRESET (18) el modo de pre-sintonización manual AM/FM.

4 Mantenga pulsado MODE (4) durante 2 segundos hasta que el número de reproducción parpadee en el visor.
Aparece el paso actual.

5 Pulse PRESET + o - (18) y seleccione "FM 50K" para un intervalo de 50 kHz, o bien, "FM 100K" para un intervalo de 100 kHz y selección "AM 9K" para un intervalo de 9 kHz, o bien, "AM 10K" para uno de 10 kHz.

6 Pulse DISPLAY/ENTER (3).
Después de cambiar el intervalo de sintonización, debe restablecer las emisoras de radio pre-sintonizadas.

Ejemplo de la estructura de una carpeta y del orden de reproducción
El orden de reproducción de las carpetas y los archivos es el siguiente:



Notas acerca de los discos de MP3
* Cuando se inserta un disco, la unidad lee todos los archivos que este contiene. Durante este tiempo, aparecerá "READING" (leyendo). Si el disco contiene muchas carpetas o archivos que no sean MP3, puede tardar cierto tiempo en comenzar a reproducir o en iniciar la reproducción del siguiente archivo MP3.
* Es recomendable que no guarde carpetas o archivos innecesarios que no sean MP3 en el disco que vaya a utilizar para escuchar música en formato MP3.
* Se omitirán las carpetas que no contengan archivos MP3.
* Número máximo de archivos: 511
* Número máximo de carpetas: 256 (incluida la carpeta raíz)
* Número máximo de carpetas y archivos en total: 512
* Niveles máximos de directorio: 8
* Se pueden visualizar los nombres de las carpetas y de los archivos que contengan hasta 64 caracteres, incluidos las comillas.
* En esta unidad se pueden mostrar caracteres de la A - Z, del 0 - 9 y el carácter " _". Los caracteres de la a - z se muestran como los de la A - Z (en mayúsculas). Los demás caracteres se muestran como " _".

Listening to the radio

- Press POWER (2).
- Press RADIO BAND (7) repeatedly. Each time you press the button, the radio band toggles between AM and FM.
- Hold down (18) until the frequency digits begin to change in the display. The unit automatically scans the radio frequencies and stops when it finds a clear station. If you cannot tune in a station, press (18) repeatedly to change the frequency step by step.

Tip
If an FM broadcast is noisy, setting the current station to monoaural usually reduces the noise.
1 Press MODE (3).
2 While "STEREO" is displayed, press MODE (3) to display "MONO."

Changing the FM/AM tuning interval

If you need to change the FM/AM tuning interval, proceed as follows:

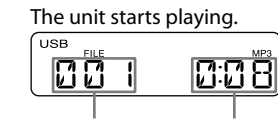
- Press POWER (2).
- Press RADIO BAND (7) to select the desired band.
- Press MANUAL PRESET (18) to enter FM/AM manual preset mode.
4 Hold down MODE (4) for 2 seconds until the preset number flashes in the display. The current step appears.
5 Press PRESET + or - (18) to select "FM 50K" for 50 kHz or "FM 100K" for 100 kHz interval, and "AM 9K" for 9 kHz or "AM 10K" for 10 kHz interval.
- Press DISPLAY/ENTER (3).

After changing the tuning interval, you need to reset your preset radio stations.

Listening to music on a USB device

You can listen to music stored on a USB device (a digital music player or USB storage media). Music files in MP3 format* can be played on this unit.

- Press POWER (2).
- Press USB (5).
- Connect the USB device to the ← (USB) port (18).
- Press (11) (18). The unit starts playing.



* Files with copyright protection (Digital Rights Management) cannot be played on this unit.
* If the playing time is more than 100 minutes, it appears as "--:--" in the display.

Other operations	Press
To	Press
Pause playback	(11) (18). To resume play, press the button again*1.
Stop playback	(12) (18).
Select a folder	(18) TUNE + or - (18).
Select a file	(13) (14) or (14) (13) during file
Find a point in a playback, and release the button at the desired point.	Hold down (13) or (14) (18) during file

*1 When playing a VBR MP3 file, the unit may resume playback from a different point.

To select a memory for playback/information

If a USB device has more than one memory (for example, internal memory and a memory card), you can select which memory to play.

- Connect the USB device to the ← (USB) port (18).
- Press USB (5) on the unit.
- Press MEMORY SELECT (11) in stop mode. If another memory exists, the total track/folder number in the memory is displayed.

Tips
• Playback starts from the MP3 file you last stopped playing (Resume play).
• To cancel resume play (start play from the beginning of the first MP3 file), press (13) (18).

To change the play mode

Press MODE (4) repeatedly while the USB device is not playing or paused. You can select Normal Play (18) for all files in folder on USB device), Repeat Play ("1" or "2"), Shuffle Play ("SHUF") or Program Play ("PGM" or "PGM C") (see "Selecting the various modes of playback" on the back page).

Notes on the USB device

- Some USB devices may not be compatible with this unit.
- You cannot change the play mode while the USB device is playing or paused.
- It may take a long time before playback starts when:
 - the folder structure is complex.
 - the USB device is close to capacity.
- When a USB device is connected, the unit reads all the files on the device. If there are many folders or files on the device, it may take a long time for the unit to finish reading them.
- Do not connect a USB device to the unit through a USB hub.
- In the case of some USB devices, when an operation is performed on the USB device, there may be a delay before it is carried out on this unit.
- This unit may not support all the functions provided on a connected USB device.
- The playback order on this unit may differ from the playback order on a connected USB device.
- Do not save non-MP3 files or unnecessary folders to a USB device that contains MP3 files.
- During playback, folders that contain no MP3 files are skipped.
- This unit can play only MP3 files that have the ".mp3" file extension.
- If there are files on the USB device that have the ".mp3" file extension, but are not MP3 files, the unit may produce noise or malfunction.
- A maximum of 999 MP3 files and 128 folders can be contained on a single USB device. A maximum of 128 files can be contained in a single folder. The maximum number of MP3 files and folders may vary, depending on the file and folder structure. The maximum number of directory levels is 9.
- Compatibility with all MP3 encoding/writing software, recording devices, and recording media cannot be guaranteed. If you use an incompatible USB device, sound skipping or noise may be result, or the device may not play at all.
- Files downloaded from a music download website may not be playable.
- Compatibility with USB Reader/Writer cannot be guaranteed.

Other operations	Press
To	Press
Pause playback	(11) (18). To resume play, press the button again*1.
Stop playback	(12) (18).
Select a folder	(18) TUNE + or - (18).
Select a file	(13) (14) or (14) (13) during file
Find a point in a playback, and release the button at the desired point.	Hold down (13) or (14) (18) during file

*1 When playing a VBR MP3 file, the unit may resume playback from a different point.

To select a memory for playback/information

If a USB device has more than one memory (for example, internal memory and a memory card), you can select which memory to play.

- Connect the USB device to the ← (USB) port (18).
- Press USB (5) on the unit.
- Press MEMORY SELECT (11) in stop mode. If another memory exists, the total track/folder number in the memory is displayed.

Tips
• Playback starts from the MP3 file you last stopped playing (Resume play).
• To cancel resume play (start play from the beginning of the first MP3 file), press (13) (18).

To change the play mode

Press MODE (4) repeatedly while the USB device is not playing or paused. You can select Normal Play (18) for all files in folder on USB device), Repeat Play ("1" or "2"), Shuffle Play ("SHUF") or Program Play ("PGM" or "PGM C") (see "Selecting the various modes of playback" on the back page).

Para seleccionar una memoria para reproducción/información

Si el dispositivo USB tiene más de una memoria (por ejemplo, una memoria interna y una tarjeta de memoria), puede seleccionar qué memoria reproducir.

- Conecte el dispositivo USB al ← (puerto USB) (18).
- Pulse USB (5) en la unidad.
- Pulse MEMORY SELECT (11) cuando está detenido.

Si hay otra memoria, se muestra el número total de pistas/carpetsas en la memoria.

Supercargas

• La reproducción se inicia desde el último archivo MP3 en que detuvo la reproducción (Reanudación de la reproducción).
• Para cancelar la reanudación de la reproducción (y empezar la reproducción desde el principio del primer archivo MP3), pulse (11) (18).

Para cambiar el modo de reproducción

Presione MODE (4) de manera repetida mientras el dispositivo USB no esté en reproducción o en pausa. Puede seleccionar Reproducción normal (18) para todos los archivos en la carpeta del dispositivo USB), Reproducción repetida ("1" o "2"), Reproducción aleatoria ("SHUF") o Reproducción programada ("PGM" o "PGM C") (consulte "Selección de los diversos modos de reproducción" en el reverso).

Notas sobre los dispositivos USB

- Es posible que algunos dispositivos USB no sean compatibles con esta unidad.
- No puede cambiar el modo de reproducción mientras el dispositivo USB esté en reproducción o en pausa.
- La reproducción puede

Other Operations

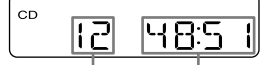
Using the display

You can check information about the CD using the display.

Checking the information of an audio CD

To check the total track number and playing time of the CD


After reading the CD, the total track number and the total playing time will appear, or press ■ **[18]** twice to cancel Resume play.

		
Total track number	Total playing time	

Checking the information of an MP3 disc

To check the total folder/file number and total file number on the CD

After reading the file/folder information, the total folder number and the total file number will appear, or press ■ **[18]** twice to cancel Resume play.


		
Total file number	Total folder number	

Checking the information of a USB device

To check the total folder/file number on a USB device

Press ■ **[18]** twice during playback, or press ■ **[18]** once while selecting the file. When there are multiple folders, the total file number is not displayed.

USB device (Example:When you connect a USB device)

		
Total file number	Total folder number	

Tips

- If the CD is blank, "noDISC" appears in the display.
- If there are no MP3 files on the USB device, "NO FILE" appears in the display.

To check file information

Press DISPLAY/ENTER ■ while playing an MP3 disc or USB device. The display changes as follows:

→ The song title ♪ 1)
↓ The artist name ♪ 1)
↓ The album name ♪ 1)
↓ The current file number and playing time*2

- * If the file does not have corresponding ID3 information, "NO TITLE", "NO ARTIST", and "NO ALBUM" scroll instead of the song title, artist name, and album name, respectively.
- ** Song title, artist name or album name will change to this in a few seconds.

Selecting the various modes of playback

You can set to play tracks repeatedly or in random order, while a disc/USB device is stopped.

Press MODE ■ **[4]**. Each press changes the play mode as follows:

→ Normal play (None)
↓ Single repeat ⇄ 1)
↓ All repeat ⇄ 2)
↓ Selected folder play ▭ 3)
↓ Selected folder repeat play ⇄ ▭ 4)
↓ Shuffle play (SHUF)
↓ Program play (PGM)
↓ Program repeat play ⇄ ⇄ ▭ 5)

- * These functions do not apply when using a CD-DA.

Playing tracks/MP3 files repeatedly (Repeat Play)

You can play tracks/MP3 files or a USB device repeatedly in normal and program play modes.

- Press POWER ■ **[2]**.
- Press CD ■ **[6]** or USB ■ **[5]**.
- Proceed as follows, while the CD/MP3 disc or USB device is not playing.

To repeat	Do this
A single track/MP3 file	1 Press MODE ■ [4] (press ■ [18] , then press MODE ■ [4] during playback) until ⇄ 1* appears.
	2 Press ◀▶ [18] to select the track/MP3 file that you want to repeat.
	3 Press ▶ [18] .

All tracks/MP3 files	1 Press MODE ■ [4] (press ■ [18] , then press MODE ■ [4] during playback) until ⇄ 1* appears.
	2 Press ▶ [18] .

A selected folder (MP3)	1 Press MODE ■ [4] (press ■ [18] , then press MODE ■ [4] during playback) until disc or USB device)
	2 Select the folder by pressing ▭ /TUNE + or - ■ [18] .
	3 Press ▶ [18] .

Programmed tracks/MP3 files (see "Creating your own program").	1 Program tracks/MP3 files (see "Creating your own program").
	2 Press MODE ■ [4] (press ■ [18] , then press MODE ■ [4] during playback) until "PGM" and ⇄ 2* appear.
	3 Press ▶ [18] .

Note	Note
• You cannot change the play mode while track/MP3 file is playing or paused.	• When you press MODE ■ [4] during playback, "PUSH STOP" appears in the display.

To cancel Repeat Play
Press MODE ■ **[4]** (press ■ **[18]**, then press MODE ■ **[4]** during playback) until ⇄ 2* disappears from the display.

Playing tracks/MP3 files in random order (Shuffle Play)

You can play tracks/MP3 files or a USB device in random order.

- Press POWER ■ **[2]**.
- Press CD ■ **[6]** or USB ■ **[5]**.
- Press MODE ■ **[4]** (press ■ **[18]**, then press MODE ■ **[4]** during playback) until "SHUF" disappears from the display.

Note

• You cannot change the play mode while track/MP3 file is playing or paused.

• When you press MODE ■ **[4]** during playback, "PUSH STOP" appears in the display.

Tips

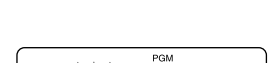
- During Shuffle Play, you cannot select the previous track/MP3 file by pressing ◀ **[18]**.

- The resume function does not work during Shuffle Play.

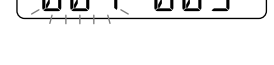
Creating your own program (Program Play)

You can arrange the playing order of up to 20 tracks/MP3 files on a CD/USB device.

- Press POWER ■ **[2]**.
- Press CD ■ **[6]** or USB ■ **[5]**.
- Press MODE ■ **[4]** (press ■ **[18]**, then press MODE ■ **[4]** during playback) until "PGM" appears in the display.
- Press ◀▶ **[18]** to select the track. For MP3 files, press ▭/TUNE + or - ■ **[18]** first and then press ▶ **[18]**. Track (File) number flashes in the display.

AUDIO CD	
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MP3 disc	
----------	---

USB device	
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- Press DISPLAY/ENTER ■ **[3]**. "STEP xx" appears in the display.

AUDIO CD	
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MP3 disc	
----------	---

USB device	
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- Program another song, repeat steps 4 and 5.
- Press ▶ **[18]** to start Program Play.

To cancel Program Play
Stop playback first. Then press MODE ■ **[4]** until "PGM" disappears from the display.

To check the order of tracks/MP3 files
Press DISPLAY/ENTER ■ (press ■ **[18]**, then press DISPLAY/ENTER ■ **[3]** during playback).

The last programmed step number appears in the display. After a few seconds, the last programmed track/folder number appears in the display.

To change the current program
Press ■ **[18]** once if the CD is stopped and twice if the CD is playing. The current program will be erased. Then create a new program following the programming procedure.

- Tips**
- If you try to program 21 tracks/MP3 files or more, "FULL" will appear in the display.
- You can play the same program again, since the program is saved until you open the CD compartment.
- The resume function does not work during Program Play.

Presetting radio stations

You can store radio stations into the unit's memory. You can preset up to 30 radio stations, 20 for FM and 10 for AM in any order.

- Press POWER ■ **[2]**.
- Press RADIO BAND ■ **[7]** to select the band.
- Hold down AUTO PRESET ■ **[7]** for 2 seconds until "AUTO" flashes in the display.
- Press DISPLAY/ENTER ■ **[3]**. Stations are stored in memory from the lower frequencies to the higher ones.

If a station cannot be preset automatically

You need to preset a station with a weak signal manually.

- Press POWER ■ **[2]**.
- Press RADIO BAND ■ **[7]** to select the band.
- Tune in a station you want using ▭/TUNE + or - ■ **[18]**.
- Press MANUAL PRESET ■ **[7]**. The band selected ("FM-xx" or "AM-xx") appears in the display.
- Press PRESET + or - ■ **[18]** until the preset number you want for the station flashes in the display.
- Press DISPLAY/ENTER ■ **[3]**. The new station replaces the old one.

Tp
The preset radio stations remain in memory even if you unplug the AC power cord.

Playing preset radio stations

- Press POWER ■ **[2]**.
- Press RADIO BAND ■ **[7]** to select the band.
- Press PRESET + or - ■ **[18]** to tune in the stored station.

Connecting optional components

You can enjoy the sound from an optional component such as a portable digital music player through the speakers of this unit. Be sure to turn off the power of each component before making any connections. For details, refer to the instruction manual of the component to be connected.

- Connect the AUDIO IN jack ■ **[1]** to the line output jack of the portable digital music player or other components using an audio connecting cable (not supplied).
- Press POWER ■ **[2]** to turn the unit on.
- Turn the connected component on.

- Press AUDIO IN ■ **[3]**, and start playback on the connected component.
- Press MANUAL PRESET ■ **[7]**. The sound from the connected component is output from the speakers of this unit.

To connect the unit to a TV or VCR, use an extension cable (not supplied) with a stereo-minijack on one end and two phono plugs on the other end.

Precautions

Discs that this unit CAN play

- Audio CD
- CD-R/CD-RW (CD-DA*/MP3 files)
- * CD-DA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for Audio-CDs.

Discs that this unit CANNOT play

- CD-R/CD-RW other than those recorded in music CD format or MP3 format conforming to ISO9660 level 1/Level 2 or Joliet
- CD-R/CD-RW of poor recording quality, CD-R/CD-RW that has scratches or is dirty, or CD-R/CD-RW recorded with an incompatible recording device
- CD-R/CD-RW which is finalized incorrectly

Notes on discs

- Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out. If there is a scratch, dirt or fingerprints on the CD, it may cause tracking error.

- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl floors.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as there can be a considerable rise in temperature inside the car.
- Do not stick paper or a sticker on the CD, or scratch the surface of the CD.
- After playing, store the CD in its case.

On safety

- As the laser beam used in the CD player section is harmful to the eyes, do not attempt to disassemble the casing. Refer servicing to qualified personnel only.
- Should any solid object or liquid fall into the unit, unplug the unit, and have it checked by qualified personnel before operating it any further.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this unit. Attempting to do so may damage the unit. Do not use such discs.

On power sources

You can enjoy the sound, use the supplied AC power cord; do not use any other type.

- Unplug the unit from the wall outlet when it is not to be used for an extended period of time.

On placement

- Do not leave the unit in a location near heat sources, in a place subject to direct sunlight, excessive dust or mechanical shock, or in a car subject to the direct rays of the sun.
- Do not place the unit on an inclined or unstable place.
- The ventilation holes must be unobstructed for the unit to operate properly and prolong the life of its components.
- Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or spring-wound watches away from the unit to prevent possible damage from the magnet.

On operation

- If the unit is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the CD player section. Should this occur, the unit will not operate properly. In this case, remove the CD and wait about an hour for the moisture to evaporate.

Cleaning the cabinet

- Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent, such as alcohol or benzine.

If you have any questions or problems concerning your unit, please consult your nearest Sony dealer.

Troubleshooting

General

The power does not turn on.

- Connect the AC power cord to the wall outlet securely.

There is no audio.

- Unplug the headphones when listening through speakers.

Noise is heard.

- Someone is using a portable telephone or other equipment that emits radio waves near the unit. → Move the portable telephone, etc., away from the unit.

CD/MP3 play

The CD does not play or "noDISC" is displayed even when a CD is in place.

- Place the CD with the label surface up.
- Clean the CD.
- Take out the CD and leave the CD compartment open for about an hour to dry moisture condensation.
- The CD-R/CD-RW is blank.
- There is a problem with the quality of the CD-R/CD-RW, recording device or application software.

The sound drops out.

- Reduce the volume.
- Clean the CD, or replace it if the CD is badly damaged.
- Place the unit in a location free from vibration.
- Clean the lens with a commercially available blower.
- The sound may drop out or noise may be heard when using a poor quality CD-R/CD-RW or if there is a problem with the recording device or application software.

Starting playback takes more time than usual.

- The following discs take a longer time to start playback.
 - a disc recorded with a complicated tree structure.
 - a disc that has not been finalized (a disc to which data can be added).
 - a disc that has many folders or non-MP3 files.

Radio

Reception is poor.

- Reorient the antenna to improve FM reception.



- Reorient the unit slightly to improve AM reception.

The audio is weak or is poor quality.

- Move the unit away from the TV.
- If you are using the remote while listening to AM radio, noise may be heard.

The TV picture becomes unstable.

- If you are listening to an FM program near the TV indoor antenna, move the unit away from the TV.

USB device

The USB device does not function properly.

- If any of the following problems occur, use a different USB device.
 - The USB device is not recognized.
 - File or folder names are not displayed on this unit.
 - Playback is not possible.
 - The sound skips.
 - There is noise.
 - The sound output is distorted.

"OVER CURRENT" appears.

- An abnormal level has been detected in the electrical current from the ↔ (USB) port ■ **[16]**. Turn off the unit and remove the USB device from the ↔ (USB) port ■ **[16]**. Make sure there is no problem with the USB device. If this message persists, contact your nearest Sony dealer.

There is no sound.

- The USB device is not connected correctly. Turn off the unit and reconnect the USB device. Then turn on the unit.

There is noise, skipping, or distorted sound.

- Turn off the unit and reconnect the USB device. Then turn on the unit again.
- The music data itself contains noise, or the sound is distorted. Noise may have entered during the recording process. Delete the file and try recording it again.

The USB device cannot be connected to the ↔ (USB) port ■ **[16]**.

- The connector on the USB device or USB cable was not correctly oriented when the connection was attempted. Orient the connector on the USB device or USB cable correctly.

Otras operaciones

Utilización del visor

Puede comprobar la información acerca del disco compacto utilizando el visor.

Comprobación de la información de un disco compacto de audio

Para comprobar el número total de pistas y el tiempo de reproducción del disco compacto
Luego de leer el CD, aparecerá el tiempo total de reproducción, o presione ■ **[18]** dos veces para cancelar Reanudar reproducción.

		
Número total de pistas	Tiempo total de reproducción	

Comprobación de la información de un disco de MP3

Para verificar la cantidad total de carpetas/archivos y la cantidad total de archivos en el CD

Luego de leer la información de la carpeta/e el archivo, aparecerá la cantidad total carpetas y la cantidad total de archivos, o presione ■ **[18]** dos veces para cancelar Reanudar reproducción.


		
Número total de archivos	Número total de carpetas	

Cómo consultar la información de un dispositivo USB

Para consultar la cantidad total de carpetas existentes en un dispositivo USB

Presione ■ **[18]** dos veces durante la reproducción o ■ **[18]** una vez mientras selecciona el archivo. Cuando hay múltiples carpetas, la cantidad total de archivos no se muestra.

Dispositivo USB (Por ejemplo: cuando conecta un dispositivo USB)

		
Número total de archivos	Número total de carpetas	

Sugerencias

- Si el CD está en blanco, aparece "noDISC" en el visor.
- Si no hay archivos MP3 en el dispositivo USB, aparece "NO FILE" en el visor.

Para consultar la información del archivo

Pulse DISPLAY/ENTER ■ en la unidad mientras se reproduce un disco MP3. La indicación cambia de la siguiente forma:

→ Título de la canción ♪ 1)
↓ Nombre del artista ♪ 1)
↓ Nombre del álbum ♪ 1)
↓ Número de archivo y tiempo de reproducción*1

- * Si el archivo no tiene la información ID3 correspondiente, "NO TITLE", "NO ARTIST", y "NO ALBUM" aparecen en lugar del título de la canción, el nombre del artista y el del álbum, respectivamente.
- ** En unos segundos aparecerán el título de la canción, el nombre del artista o el del álbum.

Selección de los diversos modos de reproducción

Puede configurar para reproducir pistas de manera repetida o en orden aleatorio mientras el disco/ dispositivo USB está detenido.

Pulse MODE ■ **[4]**. Cada vez que pulse el botón, el modo de reproducción cambiará de la forma siguiente:

→ Reproducción normal (Ninguna)
↓ Repetir una ⇄ 1)
↓ Repetir todo ⇄ 2)
↓ Reproducción de la carpeta seleccionada ▭ 3)
↓ Reproducción repetida de la carpeta seleccionada ⇄ ▭ 4)
↓ Reproducción aleatoria (SHUF)
↓ Reproducción programada (PGM)
↓ Reproducción repetida programada ⇄ ⇄ ▭ 5)

- * Estas