CFD-RS60CP

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WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only. To reduce the risk of fire, do not cover the ventilation of the apparatus with newspapers, tablecloths, curtains, etc. And do not place lighted candles on the apparatus.

To reduce the risk of fire or electric shock, do not place objects filled with liquids, such as vases, on the apparatus. Connect the apparatus to an easily accessible AC outlet. Should you notice an abnormality in the apparatus, disconnect the main plug from the AC outlet

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

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

Excessive sound pressure from earphones and headphones can cause hearing loss.

Power sources



Connect the AC power cord A or insert six R20 (size D) batteries (not supplied) into the battery compartment B.

Replace all the batteries with new ones. Before you replace the batteries, be sure to take out the CD from the unit.

• Replace the batteries when the OPR/BATT 16 indicator dims or when the unit stops operating

• When you operate the unit on batteries, you cannot turn on the unit using the remote.

• To use the unit on batteries, disconnect the AC power cord from the unit.

Α

1 to AC IN

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

2 to the wall outlet

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product. Applicable accessories: Remote control

Notice for customers: the following information is FM: Telescopic antenna AM: Built-in ferrite bar antenna only applicable to equipment sold in countries applying EU directives

Cassette-corder section

Recording system 4-track 2 channel stereo

USB section

TYPE I (normal): 80 - 10 000 Hz

MP3 (MPEG 1 Audio Laver-3)

Sampling frequencies MP3 (MPEG 1 Audio Layer-3):

Full range: 10 cm dia., 3.2 Ω, cone type (2)

Input

← (USB) port: Type A, maximum

Headphones jack (stereo minijack

Mexico model: 120 V AC, 60 Hz Other models: 230 V AC, 50 Hz

9 V DC, 6 R20 (size D) batteries

For CD radio cassette-corder

Sony R20P: approx. 13.5 h

Sony R20P: approx. 7 h

Sony R20P: approx. 2.5 h

(incl. projecting parts)

AC power cord (1

Remote control (1)

Optional accessories

Approx. 3.8 kg (incl. batteries

MDR headphones serie

To adjust the volume

audio emphasis you want.

Choose

ROCK

POP

JAZZ

OFF

VOCAL

To listen through headphones

To select the sound characteristic

To get

Press VOLUME +, - (VOL +, - on the remote) $\boxed{9}$.

Connect the headphones to the Ω (headphones) jack 2.

powerful, clean sounds, emphasizing

light, bright sounds emphasizing high

percussive sounds, emphasizing bass

the whole dynamic range for music

the presence of vocals, stressing

low and high range audio

and middle range audio

middle range audio

such as classical music

Press SOUND **7** on the unit repeatedly to select the

Sony alkaline LR20: approx. 20 h

Sony alkaline LR20: approx. 12 h

Sony alkaline LR20: approx. 7 h

Approx. 420 × 158.5 × 260 mm (w/h/d)

Design and specifications are subject to change without notice

AC 18 W

FM recording

Tape playback

CD playback

3 V DC, 2 R03 (size AAA) batterie

For 16 - 68 Ω impedance headphone

Power output 2.3 W + 2.3 W (at 3.2 Ω , 10% harmonic distortion)

Power requirements
For CD radio cassette-corder:
Malaysia, Singapore and Thailand models: 230 - 240 V AC, 50 Hz

2 - 320 kbps, VBR

32/44.1/48 kHz

USB-A (Full Speed)

(USB) port

Approx. 120 s (sec.) with Sony cassette C-60

The manufacturer of this product is Sony Corporation 1-7-1 Konan, Minato-ku, Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters, please refer to the addresses given in separate service or guarantee documents.

Notes 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

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

Specifications

CD player section

Compact disc digital audio system

Laser output: Less than 44.6 uW

120 V model	
FM: 87.5 - 108 MHz	
AM: 530 - 1 710 kHz	
Other models	

AM: 531 - 1611 kHz (9 kHz ster

Laser diode properties
Emission duration: Con

(This output is the value measured at a distance of about 200 mm from the objective lens surface on the

optical pick-up block with 7 mm aperture.) spindle speed 200 r/min (rpm) to 500 r/min (rpm) (CLV)

Number of channels

20 - 20 000 Hz +1/-2 dB

Wow and flutter
Below measurable limit

Radio section

FM: 87.5 - 108 MHz

530 - 1 610 kHz (10 kHz step

Basic Operations

1) (2)

4) (5)

* VOLUME + (VOL + on the remote) 9, ►11 6, < 13 and 5 22

The unit's operating voltage is shown on the bottom of

frequency range, and AC operation, check the operating

the unit. For changing the AM tuning interval, radio

on the remote have a tactile dot.

Before using the unit

About the operating voltage

To turn on/off the power

voltage of your unit.

Press OPERATE 15

Basic Operations

Audio CD Track number Playing time



MP3 file number After the file name is displayed, the playing time will appear

То	Press
Pause playback	▶II on the unit (II on the remote)6. To resume play, press it again.
Stop playback	6 .
Go to the next track/MP3 file	▶▶ 1 10.
Go back to the previous track/ MP3 file	1 √ 10.
Select a folder on an MP3 disc	☐ + on the unit to go forward and ☐ - to go backward 11. (On the remote, use FOLDER + or - 11.)
Locate a point while listening to the sound	►► (forward) or ◄◄ (backward) 1 on the unit while playing and hold it until you find the point (Or the remote, use ►► or ►◄ 10.)
Locate a point while observing the display	►► (forward) or ◄◄ (backward) 1 on the unit in pause and hold it until you find the point (On the remote, use ►►I or ◄◄ 10.)
Locate a specific track/MP3 file	the number button 22 of the track MP3 file on the remote.

directly

 Playback starts from the track/MP3 file you last stopped playing (Resume play). During stop, the track/MP3 file number to be played

• To cancel the resume play (to start play from the beginning of the first track/MP3 file), press ■ **6** or open the CD compartment in

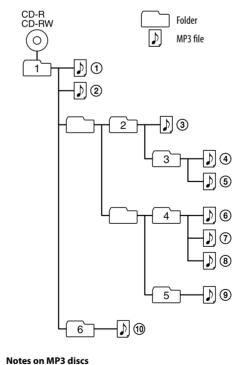
To locate a track by number on the remote

(Example) For track/MP3 file number 1: Press 1 22, and then ENTER 23. For track/MP3 file number 12: Press 1, 2 22, and then

ENTER 23. For track/MP3 file number 123: Press 1, 2, 3 22, and then ENTER 23.

You cannot locate a specific track/MP3 file if "SHUF" or "PGM" is lit in the display. Turn off the indication by pressing MODE 18

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



• When the disc is inserted, the unit reads all the files on that disc

begin or for the next MP3 file to start play.

disc to be used for MP3 listening.

Maximum number of files: 255

Maximum directory steps: 8

name" can be displayed.

noise that could damage your speakers.

The file name does not correspond to the ID3 tag.

• Maximum number of folders: 150

During this time, "READING" is displayed. If there are many folders

o not save unnecessary folders or files other than MP3 ones in the

or non-MP3 files on the disc, it may take a long time for play to

• Locating a specific MP3 file using the number buttons 22 on the

remote is only available for the MP3 files in the selected folder.

• A folder that does not include an MP3 file is skipped.

Maximum number of folders and files in total: 300

• Folder names and file names can be displayed with up to 32

 \bullet The characters A - Z, a - z, 0 - 9, and _ can be displayed on this unit. Other characters are displayed as "_".

• This unit conforms to Version 1.1 of the ID3 tag format. If the file

has the ID3 tag information, "song title", "artist name", and "album

• When naming, be sure to add the file extension "mp3" to the file

• 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

Press MEGA BASS **7** on the unit.

"MEGA BASS" appears in the display.

Playing a CD/MP3 disc

To reinforce the bass sound

1 Press CD 12 on the unit. (On the remote, press OPERATE 15 and then press FUNCTION 12 repeatedly until "CD" appears in the

2 Press ♣ PUSH OPEN/CLOSE 8 on the unit, and place a disc with the label side up on the CD

To close the CD compartment, press ♠ PUSH OPEN/ CLOSE 8 on the unit.

3 Press ►II on the unit (► on the remote) 6.

The unit plays all the tracks/MP3 files once. When you place MP3 discs, "MP3" appears in the display after the unit reads the file information.

Listening to the radio

1 Press RADIO 12 on the unit (BAND 21 on the Each time you press the button, the indication changes as follows:

"FM" → "AM".

2 Hold down TUNE + or – 1 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 TUNE + or – 1 repeatedly to change the frequency step by step. When an FM stereo broadcast is received, "ST'

If the FM broadcast is noisy, press MODE 18 until "Mono" appears in the display and the radio will play in monaura

Changing the AM tuning interval (Except for the 120 V model)

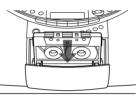
If you need to change the AM tuning interval, do the following:

- 1 Press RADIO 12 on the unit until "AM" is displayed.
- 2 Press DISP/ENT/MEMORY 17 on the unit for 2
- 3 Press RADIO 12 on the unit for 2 seconds. "9K STEP" or "10K STEP" flashes.
- 4 Press PRESET + or 10 on the unit to select "9K STEP" for 9 kHz interval or "10K STEP" for 10 kHz interval.
- **5** Press DISP/ENT/MEMORY 17 on the unit. After changing the tuning interval, you need to reset your preset AM radio stations.

Playing a tape

Use buttons on the unit for the operation.

- 1 Press TAPE 12 on the unit.
- 2 Press 13 on the unit, and insert the tape into the tape compartment with the side you want to play facing you. Use TYPE I (normal) tape only. Close
- Make sure there is no slack in the tape to avoid damaging the tape or the unit.



3 Press **■** 13 on the unit. The unit starts playing.

То	Press
Pause playback	11 13 on the unit. To resume play, press it again.
Stop playback	■▲ 13 on the unit.
Fast-forward or rewind	← or ► (fast forward or rewind) 13 on the unit.
Eject the cassette	■▲ 13 on the unit.

Recording on a tape

Use buttons on the unit for the operation.

- 1 Press ■▲ 13 on the unit to open the tape compartment and insert a blank tape with the side you want to record on facing you. Use TYPE I (normal) tape only. Close the compartment
- 2 Select the program source you want to record. To record from the CD player, place a CD and press CD 12 on the unit. To record from the radio, tune in the station you want.
- **3** Press 13 on the unit to start recording (**◄** is depressed automatically).

То	Press
Pause recording	II 13 on the unit.
	Press the button again to
	resume recording.
Stop recording	■▲ 13 on the unit.

• Adjusting the volume or the audio emphasis will not affect the recording level. • If the AM program makes a whistling sound after you've pressed ●

- 13 in step 3, press MODE 18 on the unit to select the position of ISS (Interference Suppress Switch) that most decreases the noise. • For the best results, use the AC power as a power source for
- To erase a recording, proceed as follows: 1 Insert the tape whose recording you want to erase.
- 2 Press TAPE 12 on the unit.
 - 3 Press 13 on the unit.

Listening to music of a USB device

You can listen to music stored on an optional USB device (digital music player or USB storage media). Only music files in the MP3 format* can be played on

this unit. See "Playable/Recordable USB devices" on the back page for a list of the USB devices that can be connected to this

Files with copyright protection (Digital Rights Management) cannot

- 1 Press USB 12 on the unit.
- 2 Connect the USB device to the ← (USB) port 3 on
- "USB MEMORY" appears in the display. 3 Press ►II 6.

The unit starts playing.

MP3 file number After the file name is displayed, the playing time will appear

Press

4 Press VOLUME + or – (or VOL + or – on the remote) **9** to adjust the volume.

Other operation

Pause playback	►II (or II on the unit) 6. To resume play, press the button again*.
Stop playback	■ 6.
Select a folder	□ + or - 11.
Select a file	I or ▶▶ 10.
Find a point in a file	Hold down ◀◀ or ▶▶ 1 during playback, and release the button at the desired point.
Select Repeat Play	REPEAT 19 on the unit repeatedly until "♠" or "♠ 1" appears.
Remove the USB device	Hold down ■ 6 until "NO DEV" appears, then remove the USB device.

different point

To change the play mode

Press MODE [18] repeatedly while the USB device is not playing. You can select Normal Play ("" for all files in the folder on the USB device), Shuffle Play ("SHUF" or " SHUF"), or Program Play ("PGM").

Notes on the USB device

- You cannot change the play mode during playback.Some time may be needed 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
- This unit may not support all the functions provided on the
- connected USB device. \bullet Files recorded by this unit are played back in the order of folder
- creation. Files recorded by a device other than this unit (such as a computer) may not play back in the order in which they were • The playback order on this unit may differ from the playback order
- on the connected USB device. Always hold down ■ 6 and make sure that "NO DEV" appears before removing the USB device. Removing the USB device while "NO DEV" is not displayed may corrupt the data on the USB device
- or damage the USB device itself. • 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
- are not MP3 files, the unit may produce noise or malfunction.

 A maximum of 999 MP3 files and 999 folders can be contained on a single USB device.
- The maximum number of MP3 files and folders may vary, depending on the file and folder structure. Compatibility with all MP3 encoding/writing software, recording

• If there are files on the disc that have the ".MP3" file extension, but

devices, and recording media cannot be guaranteed. If you use an incompatible USB device, the sound skipping or noise may be produced, or the device may not play at all.

Recording from a disc to a USB device

By connecting a USB device (digital music player or USB storage media) to the ← (USB) port **3** on the unit, you can record music from a disc to the USB device. This unit supports recording from CD-DA and MP3 discs only. Sound from this unit's cassette player or radio cannot be recorded to a USB device. Audio files are recorded on this unit in the MP3 format.

The approximate recording size is about 1 MB per minute of recording time from a CD. The file size may be larger for recordings made from an MP3 disc. See "Playable/Recordable USB devices" on the back page

for a list of the USB devices that can be connected to this

Synchro Recording

This function allows you to easily record an entire disc onto a USB device. See also "Recording a single track or MP3 file to a USB device during playback" on the back

- 1 Connect a USB device with recording capability to the \leftarrow (USB) port $\boxed{3}$.
 - Refer to the operation manual supplied with the USB

- 2 Press CD 12 and insert the disc that you want to 3 When the CD player is stopped, press MODE 18
- repeatedly to select the play mode The play mode automatically changes to Normal Play if the unit is in Shuffle Play, Repeat Play or Program

Play (with no tracks or MP3 files programmed) at the

For details about play modes, see "To change the play

- "REC" flashes and the display cycles through "CD SYNC", "FREExxxM"* (free space on the USB device), and "PUSH ENT".
- The USB device changes to recording standby and the unit to play pause. * If the amount of free space is in the gigabyte range, "FREExxxG"

mode" in "Listening to music of a USB device".

4 Press CD-USB SYNC/REC1 **4** on the unit.

will be displayed as the unit. **5** Press DISP/ENT/MEMORY 17 on the unit (or ENTER

automatically stop when the recording is completed.

23 on the remote) Recording starts. The unit and the USB device

To stop recording Press \blacksquare **6**.

start of recording.

To remove the USB device

- 1 Press USB 12 when the unit is stopped playing.
- 2 Hold down 6 on the unit until "NO DEV" appears.
- **3** Remove the USB device.

To erase MP3 files or folders on a USB device You can erase MP3 files or folders that are on a USB

- 1 Connect a USB device with recording capability to the ← (USB) port 3.
- 2 Press USB 12 on the unit. 3 Press I or ►► 10 repeatedly to select the MP3
- file or folder that you want to erase 4 Press ERASE 5 on the unit. When you erase a track, "TRACK" appears, followed
- by "ERASE?" When you erase a folder, "FOLDER" appears, followed
- by "ERASE?" To cancel the erase operation, press \blacksquare **6**.
- 5 Press DISP/ENT/MEMORY 17 on the unit (or ENTER 23 on the remote).
- The selected MP3 file or folder is erased.

Folder and file generation rules

When a recording operation is first performed on a USB device, a "MUSIC" folder is created directly below the "ROOT". Folders and files are generated within this "MUSIC" folder as follows, according to the recording

method. Synchro Recording¹

Recording source	Folder name	File name
MP3	Same as the recording source ²⁾	
CD-DA	"FLDR001"3)	"TRACK001"4

REC1 recording⁵

Recording source	Folder name	File name
MP3		Same as the recording
	"REC1"6)	source ²⁾

"TRACK001"4) CD-DA I)In Program Play, the folder name is "FLDRxxx", and the file name

depends on the recording source (CD-DA disc or MP3 disc). For details about play modes, see "To change the play mode" in "Listening to music on a USB device".

²⁾Up to 32 characters of the name are assigned. 3) Folder names are assigned in sequential order up to a maximum of 999 (including root and MUSIC).

⁴⁾File names are assigned in sequential order. ⁵⁾See "Recording a single track or MP3 file to a USB device during playback" on the back page. ⁶⁾A new file is recorded to the "REC1" folder each time REC1

recording is performed.

• Do not remove the USB device during recording or erase operations Doing so may corrupt the data on the USB device or damage the Do not connect a USB device to the unit through a USB hul

• When recording from a CD, the tracks are recorded as MP3 files at 128 kbps. When recording from an MP3 disc, MP3 files are recorded with the same bit rate as the original MP3 files.

 While recording from an MP3 disc, no sound is output and "HI SPEED" appears. • CD text information is not included in the MP3 files. • If you cancel a recording before it is completed, an MP3 file is

created with the contents up to the point the recording was stopped. Recording stops automatically if: - the USB device runs out of space during recording, or

- the number of MP3 files on the USB device reaches the limit that the unit can recognize • A maximum of 999 MP3 files and 999 folders can be contained on a

single USB device (including root and MUSIC). The maximum number of MP3 files and folders may vary, depending

• If a folder to be erased contains non-MP3 format files or sub folders

• If a folder or file with the same name as the one you are trying to record already exists on the USB device, a sequential number is added after the name for the newly recorded folder or file to avoid overwriting the existing one.

• When recording tracks from an MP3 disc to a USB device, there is no sound output.

device for connection details.

If a USB cable is necessary, use the USB cable supplied with the device to be connected.

on the MP3 file and folder structure. • You cannot erase MP3 files and folders in Shuffle Play or Program

With normal use, the batteries should last for about six months. When the remote no longer operates the unit, replace all

Replacing batteries

Preparing the remote

Insert two R03 (size AAA) batteries (not supplied).

these are not erased.

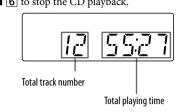
Using the display

You can check information about the CD using the

Checking the information of an audio CD

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

Press ■ **6** to stop the CD playback.



Checking the information of an MP3 disc

To check the total folder number on the CD

Press ■ **6** to stop the CD playback.



To check file information Press DISP/ENT/MEMORY 17 on the unit while playing

an MP3 disc. The display changes as follows: → The current file number and playing time

The song title $(\Pi)^*$

The artist name (

The album name (🗀)*

If the file does not have ID3 information, file name or folder name appears in the display

Playing tracks/MP3 files repeatedly (Repeat Play)

You can play tracks/MP3 files repeatedly in normal, shuffle or program play modes.

- 1 Press CD 12 on the unit.
- "CD" appears in the display.
- **2** Proceed as follows.

disc only)

programed

tracks/MP3

To cancel Repeat Play

To repeat Do this

a single track/ 1 Press REPEAT 19 on the unit until "

☐ 1" appears. 2 Press or ►► 10 to select the track/MP3 file that you want to

3 Press ►II on the unit (► on the remote) 6

all tracks/MP3 1 Press REPEAT 19 on the unit until files on the CD "←" appears.

2 Press ►II on the unit (► on the remote) 6 1 Press REPEAT 19 on the unit until "♠" and "♠" appear. folder (MP3

2 Select the folder by pressing \Box + or \Box – (FOLDER + or – on the remote)

3 Press ►II on the unit (► on the remote) 6.

1 Start Shuffle Play (see "Playing tracks/

tracks/MP3 MP3 files in random order"). random order 2 Press REPEAT 19 on the unit until "SHUF" and "←" appear. 3 Press ►II on the unit (► on the

MP3 files in a 1 Start Folder Shuffle Play (see "Playing selected folder tracks/MP3 files in random order"). 2 Press REPEAT 19 on the unit until in random "♠", "SHUF" and "♠" appear. order (MP3 3 Press ►II on the unit (► on the

remote) 6

Press REPEAT [19] on the unit until "\(\sigma \)" disappears from

remote) 6

remote) 6. 1 Program tracks/MP3 files (see

3 Press ►II on the unit (► on the

"Creating your own program"). 2 Press REPEAT 19 on the unit until "←" and "PGM" appear.

2 Tune in a station you want.

3 Hold down DISP/ENT/MEMORY 17 on the unit for 2 seconds until the preset number flashes in the

If a station cannot be preset automatically

4 Press PRESET + or – 10 on the unit until the preset number you want for the station flashes in the display

5 Press DISP/ENT/MEMORY 17 on the unit. The new station replaces the old one.

Playing tracks/MP3 files in random

order (Shuffle Play)

1 Press CD 12 on the unit.

To cancel Shuffle Play

disappears from the display.

Shuffle Play.

files on a CD.

the program.

increments by one.

Audio CD (Program Play)

MP3 disc (Program Play)

Program Play.

To cancel Program Play

disappears from the display.

until you open the CD compartmen

1 Press CD 12 on the unit.

"CD" appears in the display.

"CD" appears in the display.

You can play tracks/MP3 files in random order.

Press MODE 18 until "SHUF" appears in the display.

3 Press ►II on the unit (► on the remote) 6 to start

Stop playing first. Then press MODE 18 until "SHUF"

• During Shuffle Play, you cannot select the previous track/MP3 file by

Creating your own program (Program

2 Press MODE 18 until "PGM" appears in the display.

3 Press I or ►► 10 to select the track/MP3 file,

followed by selected track/MP3 file.

and then press DISP/ENT/MEMORY 17 to add it to

Repeat to program other tracks in the order that you

After programming the first track, "STEP 1" appears,

Each time you add a track/MP3 file, the step number

Total playing time of the selected track

\ | | | |

Programmed file numbe

4 Press ►II on the unit (► on the remote) 6 to start

Stop playing first. Then press MODE 18 until "PGM"

Press CLEAR 20 on the remote while the unit is stopped

program, insert a blank tape and press • 13 on the unit to start

You can store radio stations into the unit's memory. You

can preset up to 30 radio stations, 20 for FM and 10 for

1 Press RADIO 12 repeatedly on the unit to select the

2 Hold down RADIO 12 on the unit for 2 seconds until

The stations are stored in memory from the lower

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

1 Press RADIO 12 repeatedly on the unit to select the

• The resume function does not work during Program Play.

Presetting radio stations

"AUTO" flashes in the display

frequencies to the higher ones

3 Press DISP/ENT/MEMORY 17 on the unit.

AM in any order.

To delete the last track of the program

You can arrange the playing order of up to 25 tracks/MP3

• The resume function does not work during Shuffle Play.

the display. **2** Tune in a station you want.

3 Hold down the number buttons 22 that you want to preset the new station on for about 2 seconds To select a one-digit preset number, hold down the number for about 2 seconds

1 Press BAND 21 until the band you want appears in

To select a two-digit preset number, press the first digit, and then hold down the second digit for about 2

(Example) For preset number 1: Hold down 1 22 for about 2

For preset number 12: Press 1 22, and then hold down 2 22 for about 2 seconds.

The preset radio stations remain in memory even if you unplug the power cord or remove the batteries

Playing preset radio stations

1 Press RADIO 12 repeatedly on the unit to select the

2 Press PRESET + or – 10 on the unit to tune in the stored station.

On the remote

1 Press BAND 21 repeatedly to select the band.

2 Press the number buttons 22 to tune in the stored

(Examples)

For preset number 1: Press 1 22, and then ENTER 23. For preset number 12: Press 1, 2 22, and then ENTER

Falling asleep to music

1 Play the music source you want.

2 Press SLEEP 14 to display "SLEEP".

3 Press SLEEP 14 to select the minutes until the unit goes off automatically Each time you press the button, the indication changes

"AUTO*" \rightarrow "60MIN" \rightarrow "30MIN" \rightarrow "20MIN" \rightarrow "10MIN" \rightarrow "OFF".

* When you select "AUTO", the CD stops playing in 90 minutes at most and the unit goes off automatically. When you are listening to the radio, the radio goes off in 90 minutes. If 4 seconds have passed after you pressed SLEEP 14,

the minutes in the display are entered. When the preset time has passed, the unit goes off automatically.

To cancel the sleep function

Press OPERATE 15 or SLEEP 14 to turn off the power.

When you are playing a tape using this function: If the tape length of one side is longer than the set time, the unit will not go off until the tape reaches the end.

Recording a single track or MP3 file \bullet You can play the same program again, since the program is saved to a USB device during playback • You can record your own program. After you've created the

REC1 Recording

This procedure allows you to easily record the currently playing track or MP3 file to a USB device. See also Synchro Recording" in "Recording from a disc to a USB device" on the front page

1 Connect a USB device with recording capability to the ← (USB) port 3

2 Press CD 12 and insert the disc with the track or MP3 file that you want to record.

3 Select the track or MP3 file and start playing it.

4 Press CD-USB SYNC/REC1 4 on the unit while the selected track or MP3 file is playing. "REC" flashes and the display cycles through "REC 1", "FREExxxM"* (free space on the USB device) and "PUSH ENT". The USB device changes to recording standby and the unit to play pause.

* If the unit of the free space capacity is giga-byte, "FREExxxG" will be displayed.

5 Press DISP/ENT/MEMORY 17 on the unit (or ENTER 23 on the remote) Recording starts. When recording is completed, the CD player

continues to play.

To stop recording Press **■6**.

Precautions

Discs that this unit CAN play

Audio CD

Notes on discs

 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 \bullet CD-R/CD-RW of poor recording quality, CD-R/CD-RW that has scratches or are dirty, or CD-R/CD-RW recorded with an incompatible recording device
- CD-R/CD-RW which is finalized incorrectly

Verified Sony USB storage media (as of

NWD-B103/B103F/B105/B105F

USM512EX / 1GEX / 2GEX

USM128J / 256J / 512J / 1GJ /

USM512JX / 1GJX / 2GJX / 4GJX

USM256H / 512H / 1GH / 2GH /

Playable/Recordable USB devices

You can use the following Sony USB devices on this unit.

Model name

2GI / 4GI

Check the websites below for the latest information about

• When formatting the above models, be sure to format using the

model itself or the dedicated formatting software for that model. Otherwise, you may be unable to record the USB device properly on

• Do not use USB devices other than these USB devices. Operation of

Operation may not always be ensured even when using these USB

• Some of these USB devices may not be available for purchase in

4GH

Other USB devices are not playable/recordable on this

Verified Sony digital music player (as of

January 2007)

January 2007)

Product name

MICROVAULT

compatible devices.

For customers in Europe:

http://sonydigital-link.com/dna

For customers in Asia and Oceania:

models not listed here is not guaranteed.

http://www.sony-latin.com/pa/info

For customers in Latin America:

http://www.css.ap.sony.com/>

Product name

• 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



• Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

• Do not expose the CD to direct sunlight or heat sources Clean the CD. such as hot air ducts, nor leave it in a car parked in direct sunlight as there can be a considerable rise in for about an hour to dry moisture condensation temperature inside the car. • The CD-R/CD-RW is blank

 Do not stick paper or sticker on the CD, nor scratch the surface of the CD

 \bullet 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

• For AC operation, check that the unit's operating voltage is identical with your local power supply (see "Specifications") and use the supplied AC power cord; do not use any other type.

• 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. • Unplug the unit from the wall outlet when it is not used

for an extended period of time. • When the batteries are not to be used, remove them to avoid damage that can be caused by battery leakage or

 The nameplate indicating operating voltage, power consumption, etc. is located at the bottom.

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. • Do not place anything within 10 mm of the side of the cabinet. 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 springwound watches away from the unit to prevent possible damage from the magnet.

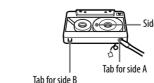
On operation

• 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.

• If the unit has not been used for a long time, set it in the blayback mode to warm it up for a few minutes before

Notes on cassettes

 Break off the cassette tab from side A or B to prevent accidental recording. If you want to reuse the tape for recording, cover the broken tab with adhesive tape.



• The use of a cassette with more than 90 minutes of play time is not recommended except for long, continuous recording or playback.

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 is not on.

- \bullet Connect the AC power cord to the wall outlet securely.
- Make sure the batteries are inserted correctly.
- Replace all the batteries with new ones if they are weak • You cannot turn on the unit with the remote when you operate the unit on batteries.

The power is not on, and "BATTERY" and "ERROR" are displayed alternately.

- Make sure the batteries are inserted correctly.
- Replace all the batteries with new ones if they are weak.

There is no audio.

• Unplug the headphones when listening through

• 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 player

The CD does not play or "NO DISC" is displayed even when a CD is in place.

- Place the CD with the label surface up.
- Take out the CD and leave the CD compartment open
- There is a problem with the quality of the CD-R/
- CD-RW, recording device or application software. • Replace all the batteries with new ones if they are weak.

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 poor quality CD-Rs/CD-RWs or if there is a problem with the recording device or application

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.

Reception is poor.

• Reorient the antenna to improve FM reception.



• Reorient the unit itself to improve AM reception



The audio is weak or has poor quality.

- Replace all the batteries with new ones if they are weak.
- Move the unit away from the TV. • If you are using the remote while listening to AM radio,

noise may be heard. The picture of your TV becomes unstable.

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

does not play or record.

erasing quality.

The tape does not move when you press an operation button.

The ● button 13 does not function or the tape

• Make sure the safety tab on the cassette is in place.

• Clean the heads by using dry- or wet-type cleaning

cassette (available separately) after every 10 hours of

use, before you start an important recording, or after

playing an old tape. Failure to clean the tape heads can

cause degraded sound quality or an inability of the unit

• The TYPE II (high position) or TYPE IV (metal) tape is

• Demagnetize the heads using a commercially available

• Replace all the batteries with new ones if they are weak.

Recording to an USB device cannot be started.

- The number of MP3 files and folders on the USB

"Playable/Recordable USB devices" (on this page) for

• The USB device is not formatted correctly. Refer to the

USB device operation manual for details on how to

• Turn off the unit and remove the USB device. If the

USB device has a power switch, turn the USB device off

and then on again after removing it from the unit. Then

times, the file structure within the USB device becomes

complex. Refer to the USB device operation manual for

details on how to deal with this problem. If the problem

Recording to a USB device results in an error.

"Playable/Recordable USB devices" for a list of the

• Turn off the unit and remove the USB device. If the

The USB device was disconnected or the power was

recorded file and record it again. If this does not solve

the problem, the USB device may be broken. Refer to

the USB device operation manual for details on how to

deal with this problem. If the problem persists, contact

MP3 files or folders on the USB device cannot

• Check whether the USB device is write-protected or

• The USB device was disconnected or the power was

partially-erased file. If this does not solve the problem

operation manual for details on how to deal with this

problem. If the problem persists, contact your nearest

Recordable USB devices" for a list of the device that are

- File or folder names are not displayed on this unit.

• An abnormal level has been detected in the electrical

current from the ← (USB) port **3**. Turn off the unit

and remove the USB device from the ← (USB) port 3

Make sure there is no problem with the USB device. If

this message persists, contact your nearest Sony dealer.

• The USB device is not connected correctly. Turn off the

unit and reconnect the USB device. Then turn on the

There is noise, skipping, or distorted sound.

• Turn off the unit and reconnect the USB device. Then

• The music data itself contains noise, or the sound is

The USB device cannot be connected to the ←

• The connector on the USB device or USB cable was not correctly oriented when the connection was attempted

Connect the connector on the USB device or USB cable

distorted. Noise may have entered during the recording process. Delete the file and try recording it again.

unit and check whether the "USB MEMORY" lights up

the USB device may be broken. Refer to the USB device

turned off during the erase operation. Delete the

Are you using a compatible USB device?

• If you connect an incompatible USB device, the

following problems may occur. See "Playable/

- The USB device is not recognized.

- Playback is not possible.

- The sound output is distorted.

"OVER CURRENT" appears.

- Recording stops before completion.

- The sound skips.

- There is noise.

There is no sound.

or not in the display.

turn on the unit again.

in the correct orientation.

(USB) port 3.

turned off during recording. Delete the partially

USB device has a power switch, turn the USB device off

and then on again after removing it from the unit. Then

• You are using an incompatible USB device. See

persists, contact your nearest Sony dealer.

• If recording and erase operations are repeated several

Poor or distorted playback, recording or

to record or play tapes. For details, refer to the

being used. Use TYPE I (normal) tape only.

• The following problems may have occurred.

device has reached the maximum limit.

Recording stopped before completion.

• You are using an unsupported USB device. See

- The USB device is write-protected.

instructions of the cleaning cassette.

tape head demagnetizer.

- The USB device is full.

the supported device types.

format the USB device.

perform recording again.

devices that are supported.

perform recording again.

your nearest Sony dealer.

be erased.

Sony dealer.

supported.

USB device

• Close the cassette compartment securely.

- There are many folders or files on the USB device.
- The internal memory is fragmented.
- Keep the total number of folders on USB device to
- 100 or less

Erroneous display

• The data stored on the USB device may be corrupted.

alphabet. Other characters will not be displayed

- turn on the unit.
- Connect the supported USB device (See "Playable/
- Recordable USB devices" (on this page) for the
- The USB device does not work properly. Refer to the

USB device operation manual for details on how to deal

with this problem. If the problem persists, contact your

nearest Sony dealer.

- Turn off the unit and reconnect the USB device.
- Connect a USB device that this unit can play (see

Play does not start from the first track.

MP3 files cannot be played back.

- The data was not stored in the MP3 format. • The USB storage device uses a file system other than
- The USB storage device is partitioned. Only the MP3 files in the first partition can be played. • Playback is possible up to 8 levels.
- The files are encrypted or protected by passwords. * This unit supports FAT16 and FAT32, but some USB storage media

Remote

• Replace all the batteries in the remote with new ones if they are weak.

- Make sure that you are pointing the remote at the
- Remove any obstacles in the path of the remote and the

After trying the remedies, if you still have problems, unplug the AC power cord or remove all the batteries. After all the indications in the display disappear, plug the AC power cord or insert the batteries again. If the

problem persists, please consult your nearest Sony dealer.

"READING" is displayed for an extended time, or it takes a long time before playback starts.

• The reading process can take a long time in the

- following cases:
- The file structure is extremely complex.
- The memory is almost full.
- To avoid the above problems, we recommend that you adhere to the following guidelines:
- Keep the total number of files per folder to 100 or less.

- Send the music data to the USB device again.
- This unit can display only numbers and letters of the
- The USB device is not recognized. • Turn off the unit and reconnect the USB device, then
- supported device types.).

Play does not start.

- "Playable/Recordable USB devices").

• Set the play mode to Normal Play.

- The MP3 files do not have the ".MP3" extension.
- FAT16 or FAT32.*
- The number of folders has exceeded 999. • The number of files has exceeded 999.
- may not support both file systems.

For details, refer to the operation manual of the USB storage device

The remote does not function.

in question or contact the manufacturer.

- remote sensor on the unit
- Make sure the remote sensor is not exposed to strong light such as direct sunlight or fluorescent lamp light. • Move closer to the unit when using the remote.