

# *Personal Audio System*

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## Operating Instructions

This manual describes how to use the player. For the supplied software SonicStage, please see "Installation/Operating Guide."

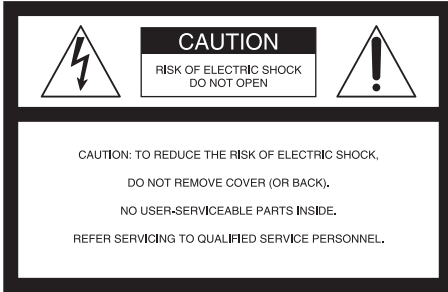


***Atrac3plus***

***ZS-XN30***

## Warning

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



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## CAUTION

The use of optical instruments with this product will increase eye hazard.

## WARNING

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

To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the appliance.

## Information

For customers in the United States

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

## Owner's Record

The model number is located at the bottom and the serial number is located in the battery compartment.

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

Model No. ZS-XN30

Serial No. \_\_\_\_\_

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# Enjoy lots of songs on your original CD

In addition to the usual audio CDs, you can play an original CD, called “ATRAC CD,” that you create with the supplied software, SonicStage. Using SonicStage, about 30 audio CDs\* can be recorded on one CD-R or CD-RW.

The following is a quick overview of how you listen to music on your ATRAC CD.

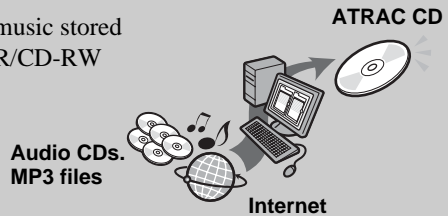
Install SonicStage on your computer.

SonicStage is software that takes music downloaded from audio CDs and the Internet on your computer and creates original CDs. It can be installed from the supplied CD-ROM.



Create an ATRAC CD.

After selecting your favorite songs from music stored on your computer, record them on a CD-R/CD-RW using SonicStage.



Listen to them with this CD player.

You can enjoy lots of songs on your original CD.



Please see the supplied “Installation/Operating Guide” for how to install SonicStage and how to create ATRAC CDs.

\* When the total playing time of one CD (album) is estimated at 60 minutes and you are recording on a 700MB CD-R/CD-RW at 48kbps in ATRAC3plus format.

## Which discs can you play on this CD player?



Audio CDs:

### **CDDA format CDs**

CDDA (Compact Disc Digital Audio) is a recording standard used for Audio CDs.



ATRAC CDs:

### **CD-R/CD-RW on which audio data compressed in the ATRAC3plus or/and ATRAC3 format has been recorded\***

ATRAC3 (Adaptive Transform Acoustic Coding3) is audio compression technology that satisfies the demand for high sound quality and high compression rates.

ATRAC3plus is audio compression technology developed from the ATRAC3 format and can compress audio files to about 1/20 of their original size at 64kbps.

You can create an ATRAC CD using SonicStage.



MP3 CDs:

### **CD-R/CD-RW on which audio data compressed in the MP3 format has been recorded\***

MP3 (MPEG-1 Audio Layer3) is audio compression technology that can compress audio files to about 1/10 of their original size.

CD-R/CD-RW on which mixed audio data compressed in the ATRAC3plus/ATRAC3, or MP3 formats has been recorded by using an software other than SonicStage can also be played. With SonicStage, you cannot create a CD on which mixed audio data is recorded.

\* Only ISO 9660 Level 1/2 and Joliet extension format discs can be played.

#### Note

Characters that can be displayed on this CD player are listed below.

- A to Z

- a to z

- 0 to 9

- ! " # \$ % & ' ( ) \* + , - . / : ; < = > ? @ [ \ ] ^ \_ ` { | } ~

If you use other characters on your computer using software such as SonicStage, they are displayed as "--" on this CD player.

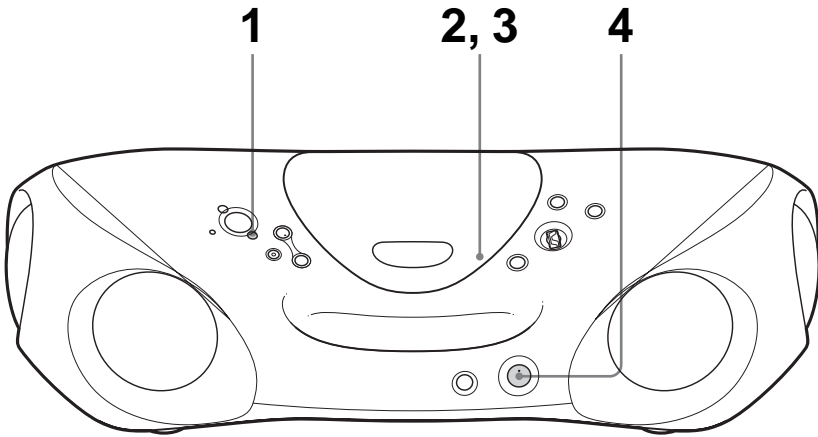
#### Music discs encoded with copyright protection technologies

This product is designed to play back 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.

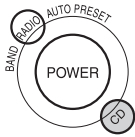
ATRAC, ATRAC3, ATRAC3plus, SonicStage and their logos are trademarks of Sony Corporation.

# Playing a CD



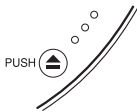
Connect the supplied AC power adaptor (see page 23).

1

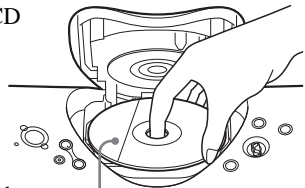


Press CD (direct power-on).

2



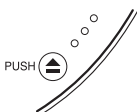
Press ▲ PUSH down to open the CD compartment and place the CD on the CD compartment.



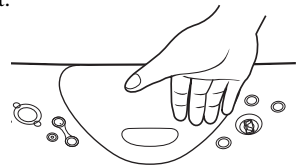
Note  
When opening/closing the CD compartment, place the player on a level surface and then press ▲PUSH down.

**With the label side up**

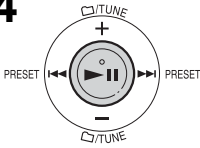
3



Close the lid of the CD compartment.

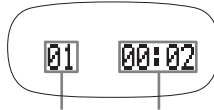


4



Press ►||.

The player plays all the tracks once.

Display  
Audio CD

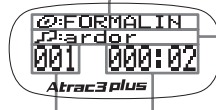
Track number

Playing time

ATRAC CD/MP3 CD\*

Group name

File name



File number

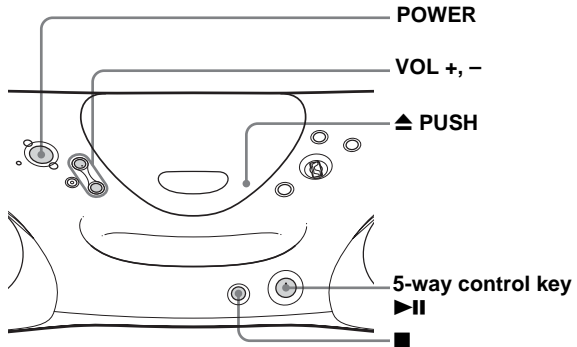
Playing time

\* When playing an MP3 CD, "MP3" appears in the display.

## Note

Before playing an ATRAC CD/MP3 CD, this player reads all file and group information on the CD. Depending on the file structure, it may take more than a minute to read them. During this time, "Reading" is displayed.

Use these buttons for additional operations








## Tips

- To listen through headphones, connect the headphones to the (headphones) jack.
- Playback starts from the point you last stopped playing (Resume play). During stop, the point to be played is displayed. To cancel the resume play to start play from the beginning of the first track, press in stop mode.

To	Do this
adjust the volume	Press VOL +* <sup>1</sup> , -.
stop playback	Press .
pause playback	Press ►  * <sup>1</sup> . Press the button again to resume play after pause.
go to the next track	Push the 5-way control key toward ►►►.
go back to the previous track	Push the 5-way control key toward ◀◀◀.

\*<sup>1</sup> The button has a tactile dot.*continued*

To	Do this
select a group* <sup>2</sup>	Push the 5-way control key toward  + to go forward and  - to go backward.
select a file* <sup>2</sup>	Push the 5-way control key toward  to go forward and  to go backward.
remove the CD	Press  PUSH* <sup>3</sup> .
turn on/off the player	Press POWER.

\*<sup>2</sup> You can operate during play of ATRAC CDs/MP3 CDs.

\*<sup>3</sup> Once you open the CD compartment, the track to start play will change to the beginning of the first track.

### About ESP (Electronic Shock Protection) function

When a CD is playing, the ESP function is always activated. The ESP function prevents the sound from skipping by using a buffer memory that stores music data for about 10 seconds.

### The structure of ATRAC CDs/MP3 CDs

ATRAC CDs/MP3 CDs consist of “files” and “groups.” A “file” is equivalent to a “track” of an audio CD. A “group” is a bundle of files and is equivalent to an “album.”

For MP3 CDs, this CD player recognizes an MP3 folder as a “group” so that ATRAC CDs and MP3 CDs can be operated in the same way.



## Notes

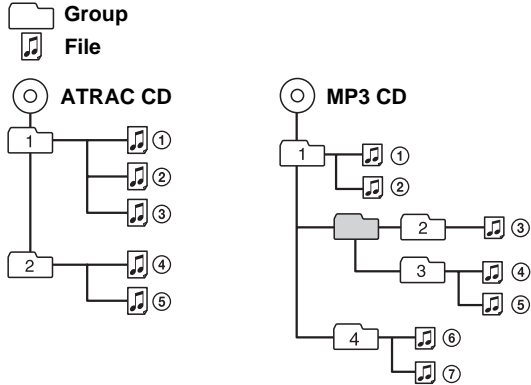
- If ATRAC3plus/ATRAC3 files and MP3 files are recorded on the same CD, this CD player plays the ATRAC3plus/ATRAC3 only.
- The playback capability of this CD player may vary depending on the quality of the disc and the condition of the recording device.
- Characters that can be displayed on this CD player are listed below.
  - A to Z
  - a to z
  - 0 to 9
  - ! " # \$ % & ' ( ) \* + , - . / :
  - ; < = > ? @ [ \ ] ^ \_ ` { | }
  - ~

If you use other characters on your computer using software such as SonicStage, they are displayed as “-” on this CD player.

- On a disc that has ATRAC3plus/ATRAC3/MP3 files, do not save files in other formats and do not make unnecessary groups.

Playing order of ATRAC CDs and MP3 CDs  
For ATRAC CDs, files are played in the order selected in SonicStage.

For MP3 CDs, the playing order may differ depending on the method used to record MP3 files on the disc. In the following example, files are played in order of ① to ⑦.



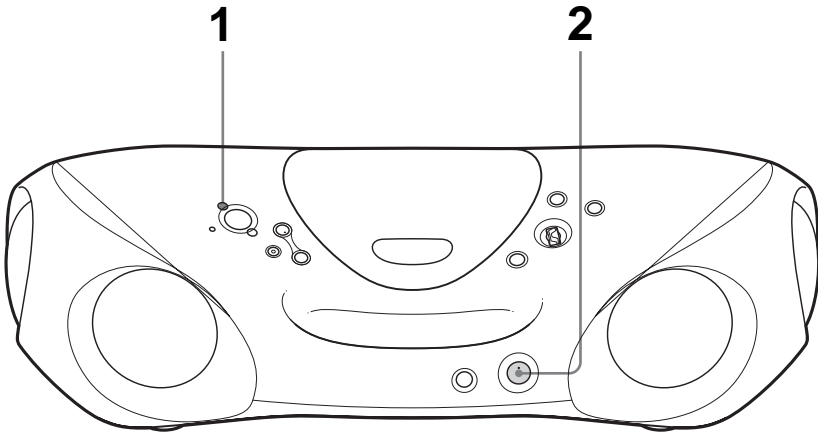
## Notes on ATRAC CDs

- Maximum number of groups: 255  
Maximum number of files: 999
- CD-Rs/CD-RWs recorded in the ATRAC3plus/ATRAC3 format cannot be played on your computer.

## Notes on MP3 CDs

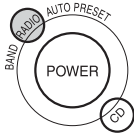
- Maximum number of groups: 100  
Maximum number of files: 400  
Maximum directory level: 8
- A group that does not include an MP3 file is skipped.
- Be sure to add the file extension “mp3” to the file name. However, if you add the file extension “mp3” to a file other than an MP3 file, the player will not be able to recognize the file properly.
- This player can play bit rates of 16 to 320 kbps, and sampling frequencies of 32/44.1/ 48 kHz. Variable Bit Rate (VBR) file can also be played.
- To compress a source in an MP3 file, we recommend setting the compression parameters to “44.1 kHz,” “128 kbps,” and “Constant Bit Rate.”
- To record up to the maximum capacity, set the writing software to “halting of writing.”
- To record to the maximum capacity at one time up on media that has nothing recorded on it, set the writing software to “Disc at Once.”

# Listening to the radio



Connect the supplied AC power adaptor (see page 23).

1

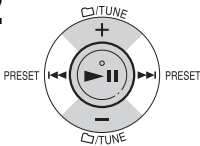


Press **RADIO•BAND•AUTO PRESET** until the band you want appears in the display (direct power-on).

**Display**

AM 530

2



Push the 5-way control key toward **TUNE +** or **TUNE -** and hold it until the frequency digits begin to change in the display.

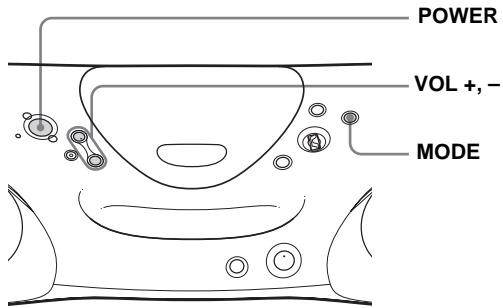
**Indicates an FM stereo broadcast**

FM 89.2 ST

The player automatically scans the radio frequencies and stops when it finds a clear station.

If you can't tune in a station, push the 5-way control key toward **TUNE +** or **TUNE -** repeatedly to change the frequency step by step.

Use these buttons for additional operations



**Tip**

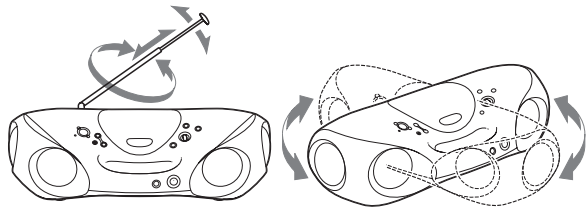
If the FM broadcast is noisy, press MODE until “Mono” appears in the display and radio will play in monaural.

To	Press
adjust the volume	VOL +*, -
turn on/off the radio	POWER

\*VOL + has a tactile dot.

**To improve broadcast reception**

Reorient the antenna for FM. Reorient the player itself for AM.

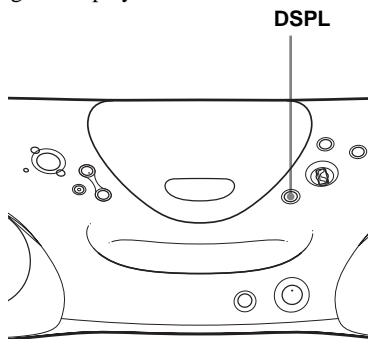


**for FM**

**for AM**

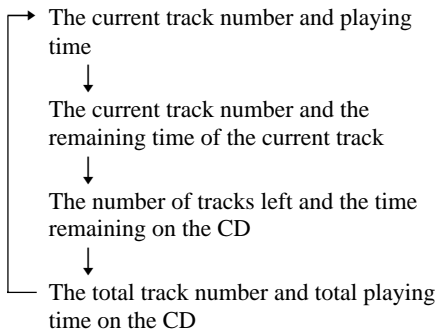
## Using the display

You can check information about the CD using the display.



## Checking the information on an audio CD

Press DSPL. The display changes as follows:



### Tip

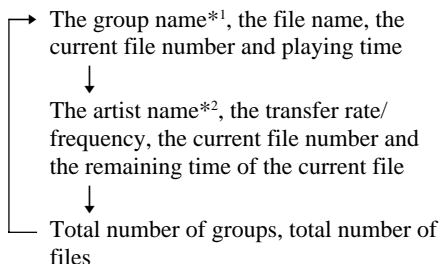
When you are playing an audio CD containing text information such as CD-TEXT, information is displayed.

## Checking the information on an ATRAC CD/MP3 CD

Press DSPL. The display changes as follows:

When you are playing an MP3 CD containing files with an ID3 tag\*, ID3 tag information is displayed.

\* ID3 tag is a format for adding certain information (track name, album name, artist name, etc.) to MP3 files. This player conforms to Version 1.0/1.1/2.3 of the ID3 tag format (for MP3 files only).

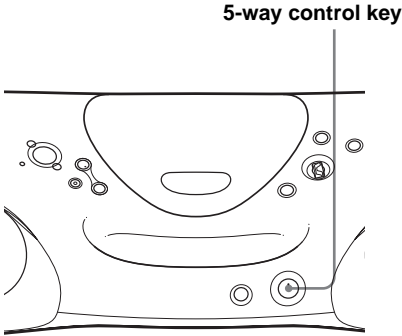


\*<sup>1</sup> If the file does not belong to any group, the group name is displayed "Root".

\*<sup>2</sup> If the file does not have an artist name, "----" is displayed.

## Locating a specific point in a track

You can find a specific point in a track while playing a CD.

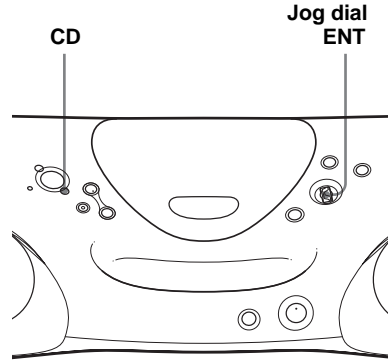


To locate	Do this
a point while listening to the sound	While playing, push the 5-way control key toward ►►► (forward) or ◀◀◀ (backward) and hold it until you find the point
a point while observing the display	In pause, push the 5-way control key toward ►►► (forward) or ◀◀◀ (backward) and hold it until you find the point

### Note

When you find a specific point in a file while playing ATRAC3plus/ATRAC3/MP3 files, the sound may not be heard for a few seconds.

## Searching for your favorite tracks/files



### Searching for a track on an audio CD

- 1 Press CD. "CD" appears in the display.
- 2 Turn the jog dial toward ▲ or ▼ to select the track you want, then press ENT.



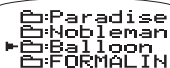
The playback starts from the track selected.

To cancel the track search  
Turn the jog dial until "CANCEL" appears,  
then press ENT.

*continued*

## Searching for a file on an ATRAC CD/MP3 CD

- 1 Press CD.  
“CD” appears in the display.
- 2 While play is stopped, turn the jog dial toward ▲ or ▼ to select the group you want, then press ENT.



```
Ⓛ:Paradise
Ⓛ:Nobleman
▶Ⓛ:Balloon
Ⓛ:FORMALIN
```

- 3 Turn the jog dial toward ▲ or ▼ to select the file you want, then press ENT.



```
Ⓛ:
▶Ⓛ:ardor
Ⓛ:roundela
Ⓛ:milk son
```

The playback starts from the file selected.

To cancel the file search

- 1 Turn the jog dial toward ▲ or ▼ until “□:” appears, then press ENT.
- 2 Turn the jog dial until “CANCEL” appears, then press ENT.

### Tip

You can also search a file while playing an ATRAC CD/MP3 CD. When you turn the jog dial during playback, the file list of the group in which the current file is will be displayed. To select a file of another group, turn the jog dial toward ▲ or ▼ until “□:” appears, then press ENT to select the group first and select the file you want by turning the jog dial.

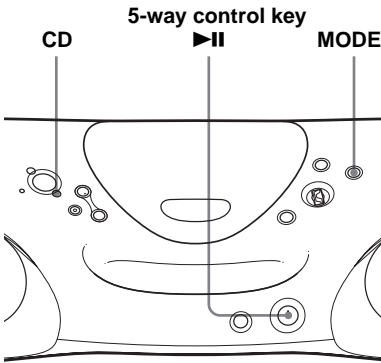
### Note

When using an ATRAC CD, up to 400 file names or up to 100 group names can be displayed. If the number of files or groups surpasses these figures, a file name such as “401 ---” or a group name such as “101 ---” will be displayed instead of names.

## Playing a specific group

(ATRAC CD/MP3 CD only)

You can play all the files in a specific group, and stop the player automatically.



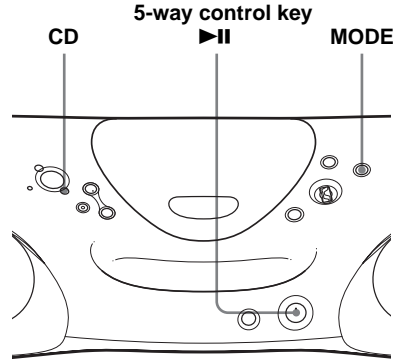
- 1** Press CD.  
“CD” appears in the display.
- 2** Press MODE repeatedly in stop mode until “1” appears in the display.
- 3** Push the 5-way control key toward  $\square +$  or  $\square -$  to select the group you want to play.
- 4** Press  $\blacktriangleright \parallel$ .

To cancel the group play  
Stop playing first. Then press MODE until  
“1” disappears from the display.

## Playing a single track

(Single track play)

You can play a single track once, and stop the player automatically.

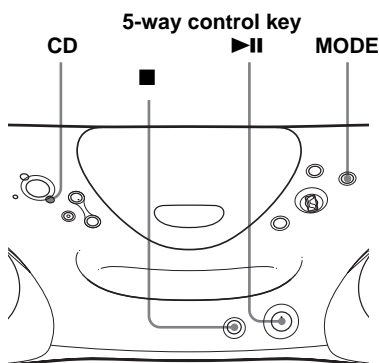


- 1** Press CD.  
“CD” appears in the display.
- 2** Press MODE repeatedly in stop mode until “1” appears in the display.
- 3** Push the 5-way control key toward  $\square +$  /  $\square -$  and  $\blacktriangleleft \blacktriangleleft$  /  $\blacktriangleright \blacktriangleright$  to select the track/ file you want to play.
- 4** Press  $\blacktriangleright \parallel$ .

To cancel the single track play  
Stop playing first. Then press MODE until  
“1” disappears from the display.

## Playing tracks in random order (Shuffle play)




You can play tracks in random order.




### Playing all tracks on a CD in random order

- 1 Press CD.  
“CD” appears in the display.
- 2 Press MODE repeatedly in stop mode until “SHUF” appears in the display.
- 3 Press ▶|| to start Shuffle play.


### Playing all files in a selected group in random order (ATRAC CD/MP3 CD only)

- 1 Press CD.  
“CD” appears in the display.
- 2 Press MODE repeatedly in stop mode until “ SHUF” appears in the display.
- 3 Push the 5-way control key toward  + or  - to select the group you want to play.
- 4 Press ▶|| to start Shuffle play.

#### To cancel Shuffle play

Stop playing first. Then press MODE until “SHUF” or “ SHUF” disappears from the display.

#### Tip

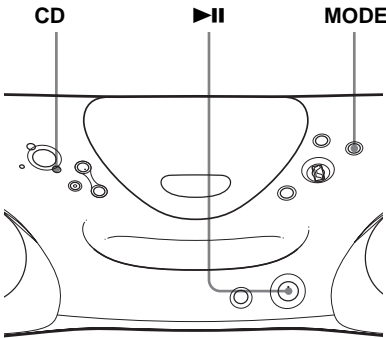
During Shuffle play, you cannot select the previous track by pushing the 5-way control key toward .



## Playing your favorite tracks by adding Bookmarks (Bookmark track play)


You can add Bookmarks to up to 99 tracks (audio CD), up to 999 files (ATRAC CD) or up to 400 files (MP3 CD) for a CD.

When you open the CD compartment, all Bookmarks stored in memory will be erased.




### Adding Bookmarks

- 1 During playback of the track to which you want to add a Bookmark, press and hold ▶|| until “Bookmark Set” appears in the display.

When the Bookmark has been added successfully, “” flashes slower.

- 2 Repeat step 1 to add Bookmarks to the tracks you want.


### Playing the tracks with Bookmarks

- 1 Press CD.  
“CD” appears in the display.
- 2 Press MODE repeatedly in stop mode until “” and “Bookmark” appear in the display.
- 3 Press ▶||.  
The playback of the tracks with the Bookmarks starts.

#### To remove Bookmarks

During playback of a track with a Bookmark, press and hold ▶|| until “Bookmark Cancel” appears in the display.

#### To check tracks with Bookmarks

During playback of tracks with Bookmarks, “” flashes slowly in the display.

#### Notes

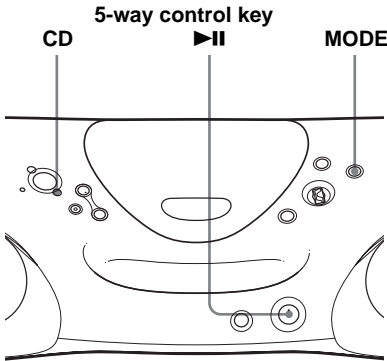
- During playback of tracks with Bookmarks, tracks are played in order of track number, and not in the order you added the Bookmarks.
- If you open the CD compartment, all Bookmarks stored in memory will be erased.

# Playing your favorite play lists (m3u play list play)

(MP3 CD only)

You can play your favorite m3u play lists.\*

\* An “m3u play list” is a file for which an MP3 file playing order has been encoded. To use the play list function, record MP3 files on a CD-R/CD-RW using encoding software that supports the m3u format.



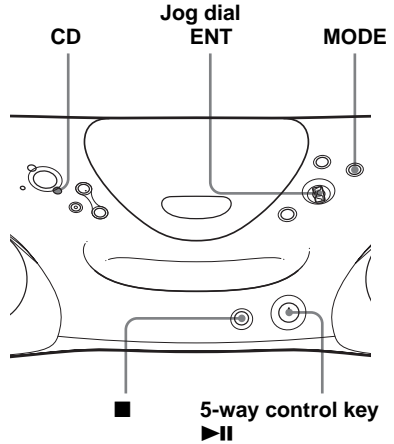
- 1 Press CD.  
“CD” appears in the display.
- 2 Press MODE repeatedly in stop mode until “PGM” appears in the display.
- 3 Push the 5-way control key toward ◀◀ or ▶▶ to select a play list you want.
- 4 Press ▶||.

**Note**

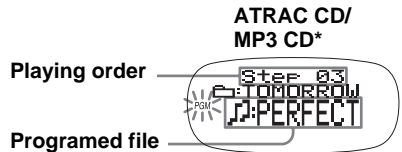
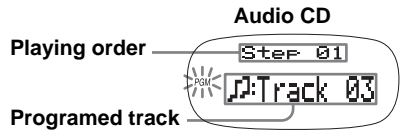
You can only play the top two play lists when two or more play lists are stored.

# Creating your own program (Program play)

You can arrange the playing order of up to 20 tracks or files on a CD.



- 1 Press CD.  
“CD” appears in the display.
- 2 Press MODE repeatedly in stop mode until “PGM” appears in the display.
- 3 Turn the jog dial toward ▲ or ▼ then press ENT for the tracks or files you want to program in the order you want.



\*You can also select another group pushing the 5-way control key toward ◻ + or ◻ -.

---

**4** Press ►|| to start Program play.

---

To cancel Program play  
Stop playing first. Then press MODE until  
“PGM” disappears from the display.

To check the order of tracks  
before play  
Press ENT while programing.  
Every time you press the button, the track or  
file number appears in the programed order.

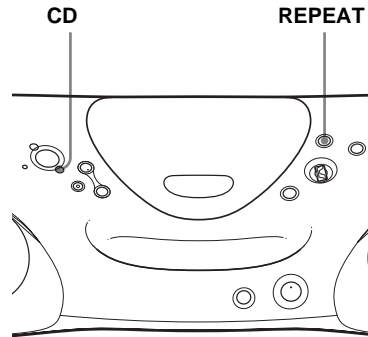
To change the current program  
Press ■ once while programing. The current  
program will be erased. Then create a new  
program following the programing  
procedure.

Tip  
You can play the same program again, since the  
program is saved until you open the CD  
compartment.

---

## Playing tracks repeatedly (Repeat play)

You can play tracks repeatedly in normal  
play mode and other play modes you want.



- 
- 1** Press CD.  
“CD” appears in the display.

---

  - 2** Play the CD.  
You can play tracks repeatedly in  
normal play mode and other play modes  
you want (see pages 15 – 19).

---

  - 3** Press REPEAT until “↻” appears in the  
display.
- 

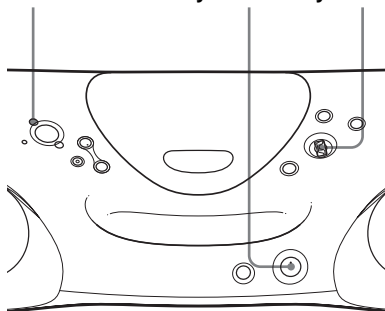
To cancel Repeat play  
Press REPEAT until “↻” disappears from  
the display.

## Presetting radio stations

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

**RADIO  
BAND**

**AUTO PRESET 5-way control key ENT**



---

**1** Press **RADIO•BAND•AUTO PRESET** to select the band.

---

**2** Hold down **RADIO•BAND•AUTO PRESET** until “Auto Preset” flashes in the display.

---

**3** Press **ENT**.  
The 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.

**1** Press **RADIO•BAND•AUTO PRESET** to select the band.

**2** Tune in a station you want by pushing the 5-way control key toward **TUNE +** or **TUNE -**.

**3** Hold down **ENT** for about 2 seconds.

**4** Push the 5-way control key toward **PRESET ◀◀** or **PRESET ▶▶** until the preset number you want for the station on flashes.

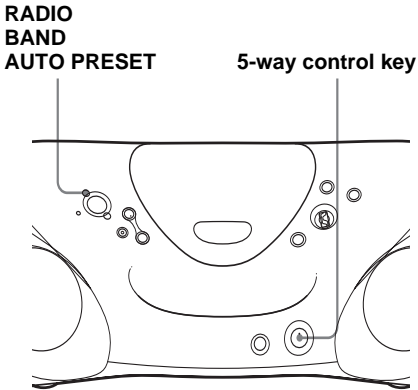
**5** Press **ENT**.

The new station replaces the old one.

---

# Playing preset radio stations

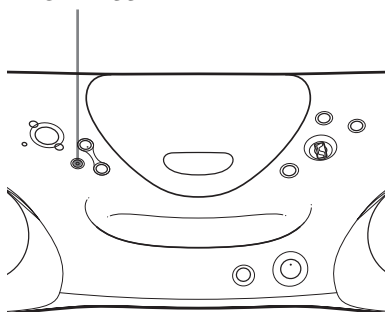
Once you've preset the stations, use the 5-way control key to tune in your favorite stations.



- 
- 1** Press RADIO•BAND•AUTO PRESET to select the band.
  - 2** Push the 5-way control key toward PRESET ◀◀ or PRESET ▶▶ to tune in the stored station.
-

## Reinforcing the bass sound (MEGA BASS)

**MEGA BASS**



---

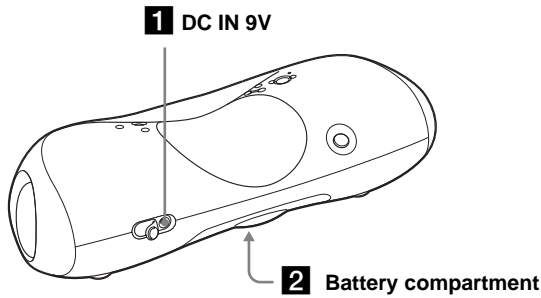
Press MEGA BASS to display  
“MEGABASS on”.

To return to normal sound, press the button  
again to display “MEGABASS off”.

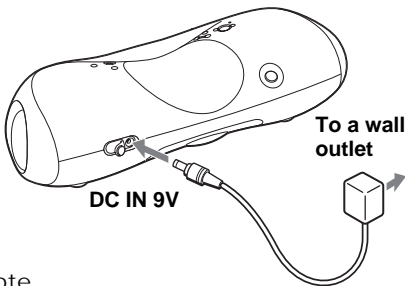
---

# Choosing the power sources

You can use the AC power or batteries as a power source.



- 1** Connecting the AC power adaptor  
 Insert one end of the supplied AC power adaptor to the DC IN 9V socket located at the rear of the player, and the other end to the wall outlet.



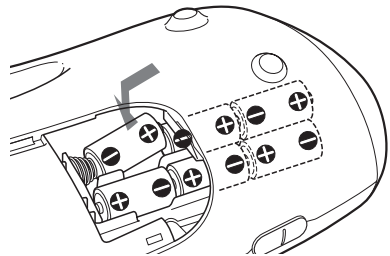
**Note**

Use only the supplied AC power adaptor. Do not use any other AC power adaptor.



**Polarity of the plug**

- 2** Using the player on batteries  
 Insert six size C (R14) batteries (not supplied) into the battery compartment. To use the player on batteries, disconnect the AC power adaptor from the player.



**Replacing batteries**

Replace the batteries when the OPR/BATT indicator dims or when the player stops operating. Replace all the batteries with new ones.

**Tip**

The backlight of the display lights up when the player is turned on.

### Precautions

#### 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 player, unplug the player, 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 player. Attempting to do so may damage the player. Do not use such discs.

#### On power sources

- For AC operation, use the supplied AC power adaptor; do not use any other type.
- The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.
- Unplug the player from the wall outlet when it is not to be used for an extended period of time.
- For battery operation, use six size C (R14) batteries.
- When the batteries are not to be used, remove them to avoid damage that can be caused by battery leakage or corrosion.
- The nameplate indicating operating voltage, power consumption, etc. is located at the bottom.

#### On placement

- Do not leave the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Do not place the player 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 player to operate properly and prolong the life of its components.

- If the player is left in a car parked in the sun, be sure to choose a location in the car where the player will not be subjected to the direct rays of the sun.
- Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or spring-wound watches away from the player to prevent possible damage from the magnet.

#### Do not immerse in water

This product is not meant to be immersed in water or come in continuous contact with water.

- Before opening or shutting the CD compartment or battery compartment lid, be sure to wipe off water, dust or sand on the outside of the player.
- Water in the headphones jack may cause rusting. Cover the jack with the attached rubber cap when the headphones is not used.
- If the player is splashed with salt water, wipe clean with a damp cloth, then dry with a soft dry cloth. Do not wash under running water; do not use soap or detergent; do not dry with an electric hair dryer.
- The supplied AC power adaptor is not water resistant. To prevent shock hazard, avoid using the player near water during AC operation.

#### On operation

- If the player 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 player will not operate properly. In this case, remove the CD and wait about an hour for the moisture to evaporate.



## Notes on CDs

- Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out.



- 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 such as hot air ducts, nor 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 sticker on the CD, nor scratch the surface of the CD.
- After playing, store the CD in its case.

If there is a scratch, dirt or fingerprints on the CD, it may cause tracking error.

## About CD-Rs/CD-RWs

This CD player can play CD-Rs/CD-RWs recorded in the ATRAC3plus/ATRAC3, MP3 or CDDA\* format, but playback capability may vary depending on the quality of the disc and the condition of the recording device.

\*CDDA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for the Audio CDs.

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

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# Troubleshooting

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## General

---

### The power is not on.

- Connect the AC power adaptor to a wall outlet securely.
- Make sure the batteries are inserted correctly.
- Replace all the batteries with new ones if they are weak.

---

### The power is not on, and “Battery Error” is displayed.

- Make sure the batteries are inserted correctly.

---

### There is no audio.

- Adjust the volume.
- 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 player. → Move the portable telephone, etc., away from the player.
- 

---

## CD Player

---

### “No disc” lights in the display even when a CD is in place.

- Place the CD with the label surface up.
- The CD-R/CD-RW was not finalized. Finalize the CD-R/CD-RW with the recording device.
- There is a problem with the quality of the CD-R/CD-RW, recording device, or application software.
- The CD-R/CD-RW is blank.
- Replace all the batteries with new ones if they are weak.

---

### The CD does not play.

- 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.
- 

*continued*

**The sound drops out.**

- Reduce the volume.
  - Clean the CD, or replace it if the CD is badly damaged.
  - Place the player 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 software.
- 

**“No File” is displayed.**

- You are trying to play a CD-R/CD-RW that does not contain an ATRAC file or MP3 file. (page 4)
- 

**You cannot open/close the lid of the CD copartment.**

- Place the player on a level surface and open/close the lid.
- 

## Radio

---

**The audio is weak or has poor quality.**

- Replace all the batteries with new ones if they are weak.
  - Move the player away from the TV.
- 

**The picture of your TV becomes unstable.**

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

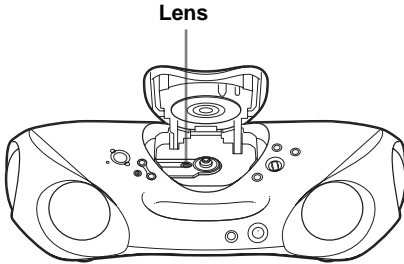
After trying the above remedies, if you still have problems, unplug the AC power adaptor and remove all the batteries. After all the indications in the display disappear, plug the AC power adaptor and insert the batteries again. If the problem persists, please consult your nearest Sony dealer.

---

# Maintenance

## Cleaning the lens

If the lens becomes dirty, it may cause a skipping of sound during CD operation. Clean with a commercially available blower.



## 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.

# Specifications

## AUDIO POWER SPECIFICATIONS POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 3.2-ohm loads, both channels driven from 100 - 10,000 Hz; rated 1.7 W per channel-minimum RMS power, with no more than 10 % total harmonic distortion in AC operation.

## Other Specifications

### CD player section

#### System

Compact disc digital audio system

#### Laser diode properties

Material: GaAlAs

Wave length: 780 nm

Emission duration: Continuous

Laser output: Less than 44.6  $\mu$ W

(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

400 r/min (rpm) to 1 000 r/min (rpm) (CLV)

#### Number of channels

2

#### Frequency response

20 - 20 000 Hz +0/-1 dB

#### Wow and flutter

Below measurable limit

### Radio section

#### Frequency range

FM: 87.5 - 108 MHz

AM: 530 - 1 710 kHz

#### Antennas

FM: Telescopic antenna

AM: Built-in ferrite bar antenna

## General

### Speaker

Full range: 8 cm (3 1/4 in.) dia.,

3.2  $\Omega$ , cone type (2)

Passive radiator: 8 cm (3 1/4 in.) dia. (2)

### Output

Headphones jack (stereo minijack):

For 16 - 64  $\Omega$  impedance headphones

### Power output

2.3 W + 2.3 W (at 3.2  $\Omega$ , 10 % harmonic distortion)

### Power requirements

DC IN 9V jack accepts:

Supplied AC power adaptor for use with 120 V AC,

60 Hz

9 V DC, 6 size C (R14) batteries

### Battery life

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#### CD playback

---

Sony R14P: approx. 2 h

Sony alkaline LR14: approx. 8 h

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#### Radio reception

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Sony R14P: approx. 23 h

Sony alkaline LR14: approx. 45 h

---

### Dimensions

Approx. 511  $\times$  154  $\times$  244 mm (w/h/d)

(20 1/8  $\times$  6 1/8  $\times$  9 3/8 inches) (incl. projecting parts)

### Mass

Approx. 3.2 kg (7 lb. 1 oz) (incl. batteries)

### Supplied accessories

AC power adaptor (1)

CD-ROM (SonicStage) (1)

SonicStage Installation/Operating Guide (1)

US and foreign patents licensed from Dolby Laboratories.

Design and specifications are subject to change without notice.

## Optional accessories

Sony MDR headphones series

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For the customers who purchased this product in the USA  
Product registration

Please register this product on line at [www.sony.com/boomboxreg](http://www.sony.com/boomboxreg)  
<<http://www.sony.com/boomboxreg>>

Proper registration will enable us to send you periodic mailings about software upgrades, new products, services and other important announcements. Thank you.

If you have any questions about this product, contact:

- [www.sony.com/boomboxsupport](http://www.sony.com/boomboxsupport)
- Sony Network Portable Audio Support Line  
1-(866)-456-7669
- Sony Customer Information Services Center  
12451 Gateway Blvd., Ft. Myers, FL 33913