Personal Audio System

Operating Instructions

This manual describes how to use the player. For the supplied software SonicStage, please see “Installation/Operating Guide.”
Warning
To prevent fire or shock hazard, do not expose the player to rain or moisture.

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

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

2. Press CD (direct power-on).

3. 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.

4. Close the lid of the CD compartment.
Press ▶II.

The player plays all the tracks once.

* 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.

**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.

**Use these buttons for additional operations**

- POWER
- VOL +, –
- ▲ PUSH
- 5-way control key ▶II ■

<table>
<thead>
<tr>
<th>To</th>
<th>Do this</th>
</tr>
</thead>
<tbody>
<tr>
<td>adjust the volume</td>
<td>Press VOL +*1, –.</td>
</tr>
<tr>
<td>stop playback</td>
<td>Press ■.</td>
</tr>
<tr>
<td>pause playback</td>
<td>Press ▶II*1.</td>
</tr>
<tr>
<td></td>
<td>Press the button again to resume play after</td>
</tr>
<tr>
<td></td>
<td>pause.</td>
</tr>
<tr>
<td>go to the next track</td>
<td>Push the 5-way control key toward ▶II.</td>
</tr>
<tr>
<td>go back to the previous track</td>
<td>Push the 5-way control key toward ▶II.</td>
</tr>
</tbody>
</table>

*1 The button has a tactile dot.
To Do this

<table>
<thead>
<tr>
<th>To</th>
<th>Do this</th>
</tr>
</thead>
<tbody>
<tr>
<td>select a group*²</td>
<td>Push the 5-way control key toward ▶ + to go forward and ◀ – to go backward.</td>
</tr>
<tr>
<td>select a file*²</td>
<td>Push the 5-way control key toward ▶▶ to go forward and ▶◀ to go backward.</td>
</tr>
<tr>
<td>remove the CD</td>
<td>Press ▲ PUSH*³.</td>
</tr>
<tr>
<td>turn on/off the player</td>
<td>Press POWER.</td>
</tr>
</tbody>
</table>

*² You can operate during play of ATRAC CDs/MP3 CDs.
*³ 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

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.

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.

Displays
Indicates an FM stereo broadcast
FM 89.2

Connect the supplied AC power adaptor (see page 23).
Tip
If the FM broadcast is noisy, press MODE until “Mono” appears in the display and radio will play in monaural.

To Press

<table>
<thead>
<tr>
<th>To</th>
<th>Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>adjust the volume</td>
<td>VOL +*, –</td>
</tr>
<tr>
<td>turn on/off the radio</td>
<td>POWER</td>
</tr>
</tbody>
</table>

*VOL + has a tactile dot.

To improve broadcast reception
Reorient the antenna for FM. Reorient the player itself for AM.
The CD Player

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:

1. The current track number and playing time
2. The current track number and the remaining time of the current track
3. The number of tracks left and the time remaining on the CD
4. The total track number and total playing time on the CD

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).

1. The group name*, the file name, the current file number and playing time
2. The artist name*, the transfer rate/frequency, the current file number and the remaining time of the current file
3. Total number of groups, total number of files

*1 If the file does not belong to any group, the group name is displayed “Root”.
*2 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.

<table>
<thead>
<tr>
<th>To locate</th>
<th>Do this</th>
</tr>
</thead>
<tbody>
<tr>
<td>a point while listening to the sound</td>
<td>While playing, push the 5-way control key toward ►► (forward) or ◄◄ (backward) and hold it until you find the point</td>
</tr>
<tr>
<td>a point while observing the display</td>
<td>In pause, push the 5-way control key toward ►► (forward) or ◄◄ (backward) and hold it until you find the point</td>
</tr>
</tbody>
</table>

**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.
Searching for your favorite tracks/files (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.

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

   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
(ATEC 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 “□” appears in the display.
3 Push the 5-way control key toward ▲ + or ▼ – to select the group you want to play.
4 Press ▶II.

To cancel the group play
Stop playing first. Then press MODE until “□” 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 ▲ +/▼ – and ▶⅛/▶II to select the track/file you want to play.
4 Press ▶II.

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.

1. Press CD. “CD” appears in the display.
2. Press MODE repeatedly in stop mode until “SHUF” appears in the display.
3. Press \(\text{\textup{5-way control key}}\) toward + or – to select the group you want to play.
4. Press \(\text{\textup{5-way control key}}\) 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 \(\text{\textup{5-way control key}}\).
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 ►ll 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 ►ll.
   The playback of the tracks with the Bookmarks starts.

To remove Bookmarks

During playback of a track with a Bookmark, press and hold ►ll 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.
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.

4 Press ▶II.

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 Turn the jog dial toward ▲ or ▼ then press ENT for the tracks or files you want to program in the order you want.

4 Press ▶II.

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

Audio CD

Playing order

Programed track

ATRAC CD/MP3 CD*

Playing order

Programed file

1 You can also select another group pushing the 5-way control key toward + or —.
4 Press ►II 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.
The Radio

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.

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

The Audio Emphasis

Reinforcing the bass sound (MEGA BASS)
Setting Up

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.

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.

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

Polarity of the plug

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 operation
- 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 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.
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.

Troubleshooting

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
**Troubleshooting (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 compartment.**
- 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 µW
(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 Ω, cone type (2)
- Passive radiator: 8 cm (3 1⁄4 in.) dia. (2)
Output
- Headphones jack (stereo minijack):
  For 16 - 64 Ω impedance headphones
Power output
- 2.3 W + 2.3 W (at 3.2 Ω, 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
CD playback
- Sony R14P: approx. 2 h
- Sony alkaline LR14: approx. 8 h

Radio reception
- Sony R14P: approx. 23 h
- Sony alkaline LR14: approx. 45 h

Dimensions
Approx. 511 × 154 × 244 mm (w/h/d)
(20 1⁄8 × 6 1⁄8 × 9 5⁄8 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)

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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>

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
- Sony Network Portable Audio Support Line
  1-(866)-456-7669
- Sony Customer Information Services Center
  12451 Gateway Blvd., Ft. Myers, FL 33913