

CD Radio Cassette-Corder

Operating Instructions

The Radio

This radio is designed to receive FM and AM radio signals. It also has a built-in speaker and a volume control. The radio is powered by a 6V battery. The battery is located on the back of the unit. The battery should be replaced when the power is low. The battery should be replaced with a 6V battery of the same type.

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Setting Up

Model No. CFD-E95
Serial No. _____
Please check the serial number on the back of the unit.

Additional Information

Power: 6V
Dimensions: 120mm (W) x 100mm (H) x 40mm (D)
Weight: 1.2kg
Accessories: 1 x 6V battery, 1 x CD, 1 x cassette tape, 1 x carrying case.

CFD-E95

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



CAUTION

The use of other than Sony recommended batteries may cause fire or explosion.

WARNING

Do not insert the disc into the player. To prevent fire or shock hazard, do not place the player near heat, such as a fire, or near water.

For information on the use of the player, please refer to the instruction manual. The player is designed to receive FM and AM radio signals. It also has a built-in speaker and a volume control. The player is powered by a 6V battery. The battery is located on the back of the unit. The battery should be replaced when the power is low. The battery should be replaced with a 6V battery of the same type.

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.

For customers in Canada

To prevent electric shock, match wide blade of plug to wide slot, fully insert.

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 on 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. CFD-E95

Serial No. _____

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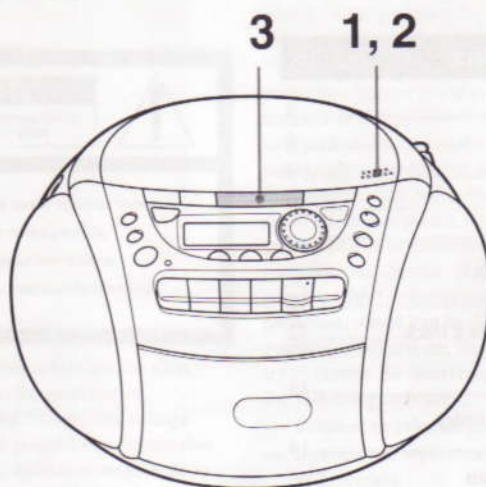
Additional Information

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About the demonstration mode

If "HELLO" appears on the display and then the backlight color of the display changes in sequence, the player is in the demonstration mode. To exit from the demonstration mode, set the clock or press DISPLAY for 2 seconds.

Playing a CD

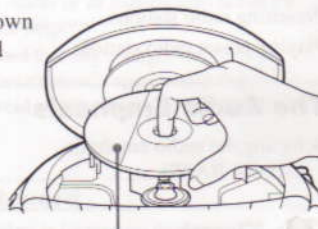


Connect the supplied AC power cord (see page 23).

1



Press **▲PUSH OPEN/CLOSE** down to open the CD compartment and place the CD on the CD compartment.



With the label side up

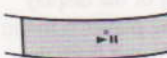
2



Close the lid of the CD compartment.



3



Press **▶II**.

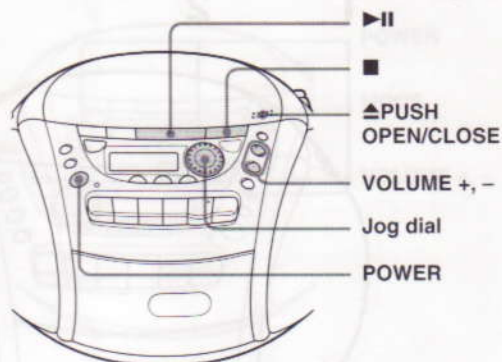
The player turns on (direct power-on) and plays all the tracks once.

Display



Track number Playing time

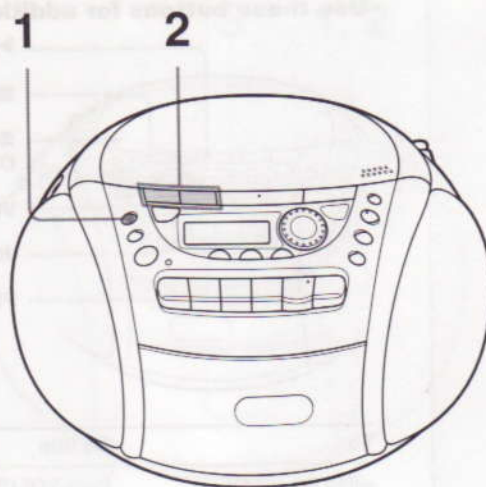
Use these buttons for additional operations



To	Do this
adjust the volume	Press VOLUME +*, - (VOL +, - on the remote).
stop playback	Press ■.
pause playback	Press ▶ *. Press the button again to resume play after pause.
go to the next track	Turn the jog dial clockwise. (On the remote, press ▶▶.)
go back to the previous track	Turn the jog dial counterclockwise. (On the remote, press ◀◀.)
remove the CD	Press ▲PUSH OPEN/CLOSE.
turn on/off the player	Press POWER.

* The button has a tactile dot.

Listening to the radio



Connect the supplied AC power cord (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



Hold down **TUNE +** or **TUNE -** 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.

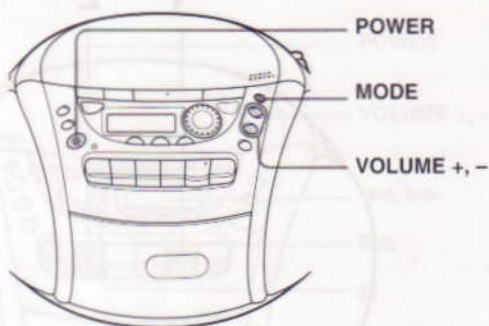
If you can't tune in a station, press the button repeatedly to change the frequency step by step.

Indicates an FM stereo broadcast

ST

FM 89.2

Use these buttons for additional operations

**Tip**

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

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

* VOLUME + has a tactile dot.

To improve broadcast reception

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

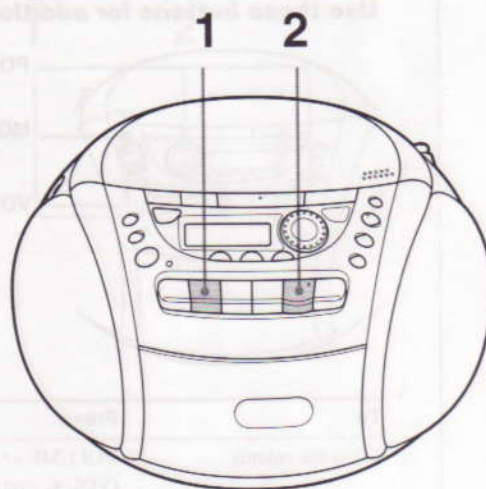


for FM



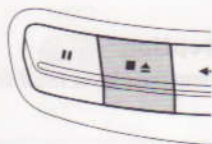
for AM

Playing a tape



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

1

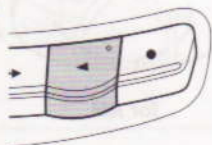


Press to open the tape compartment and insert a recorded tape. Use TYPE I (normal) tape only. Close the compartment.

With the side you want to play facing you



2



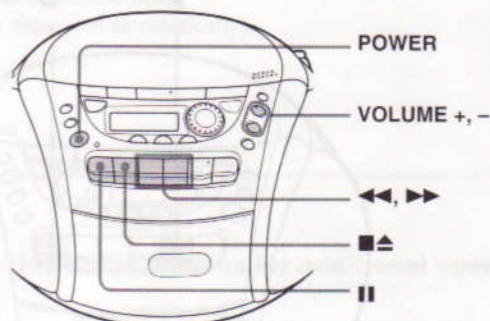
Press .

The player turns on (direct power-on) and starts playing.

Display



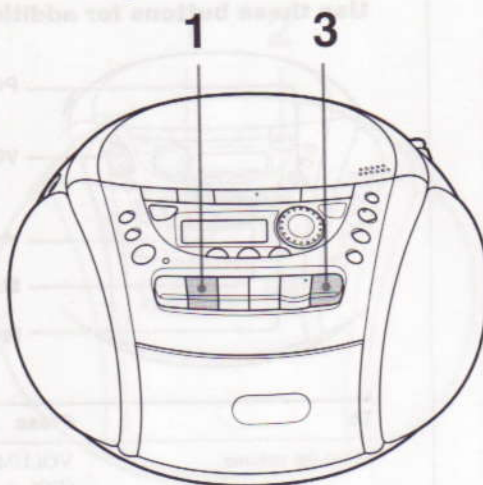
Use these buttons for additional operations



To	Press
adjust the volume	VOLUME +*, - (VOL +, - on the remote)
stop playback	■▲
fast-forward or rewind the tape	◀◀ or ▶▶
pause playback	 Press the button again to resume play after pause.
eject the cassette	■▲
turn on/off the player	POWER

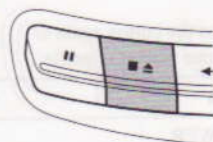
* VOLUME + and ◀ have a tactile dot.

Recording on a tape



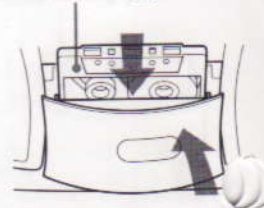
Connect the supplied AC power cord (see page 23).

1



Press to open the tape compartment and insert a blank tape. Use TYPE I (normal) tape only.

With the side you want to record on facing you



2



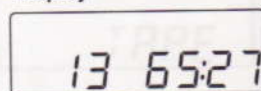
Select the program source you want to record.

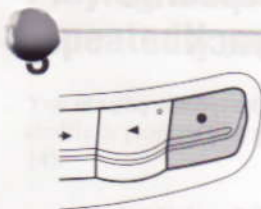
To record from the CD player, insert a CD (see page 4) and press on the CD section.

To record from the radio, tune in the station you want (see page 6).



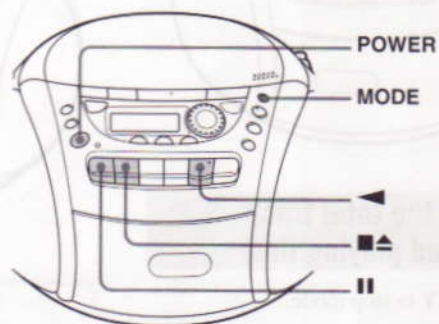
Display





Press ● to start recording
(◀ is depressed automatically).

Use these buttons for additional operations



Tips

- Adjusting the volume or the audio emphasis (see page 18) will not affect the recording level.
- If the AM program makes a whistling sound after you've pressed ● in step 3, press MODE to select the position of ISS (Interference Suppress Switch) that decreases the noise the most.
- For the best results, use the AC power as a power source.
- To erase a recording, proceed as follows:
 - 1 Insert the tape whose recording you want to erase.
 - 2 Press FUNCTION on the remote repeatedly until "TAPE" appears.
 - 3 Press ●.

To	Press
stop recording	■▲
pause recording	
	Press the button again to resume recording.
turn on/off the player	POWER

Using the display

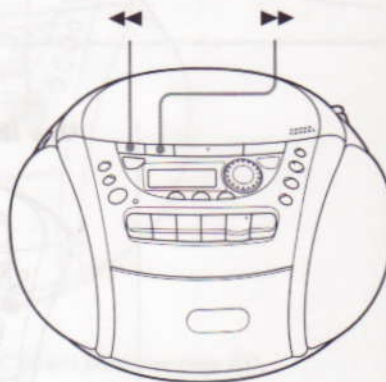
You can check information about the CD using the display.

DISPLAY



Locating a specific point in a track

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



Checking the total track number and playing time

Press DISPLAY in stop mode.

Total playing time

Total track number



Checking the remaining time

Press DISPLAY while playing a CD. The display changes as follows:

- the current track number and playing time
- ↓
- the current track number and the remaining time on the current track*
- ↓
- the number of tracks left and remaining time on the CD

* For a track whose number is more than 20, the remaining time appears as "--:--".

To locate

a point while listening to the sound

Press

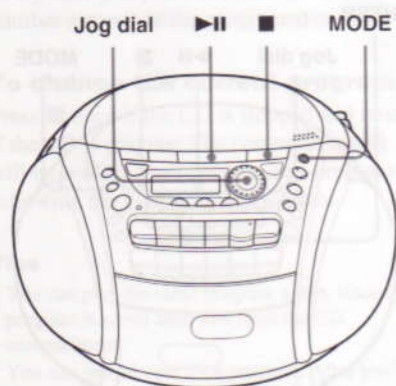
▶▶ (forward) or ◀◀ (backward) while playing and hold down until you find the point. (On the remote, use ▶▶ or ◀◀).

a point while observing the display

▶▶ (forward) or ◀◀ (backward) in pause and hold down until you find the point. (On the remote, use ▶▶ or ◀◀).

Playing tracks repeatedly (Repeat Play)

You can play tracks repeatedly in normal, shuffle or program play modes (see page 14).



- 1 Press **■**.
"Cd" appears in the display.

- 2 Proceed as follows:

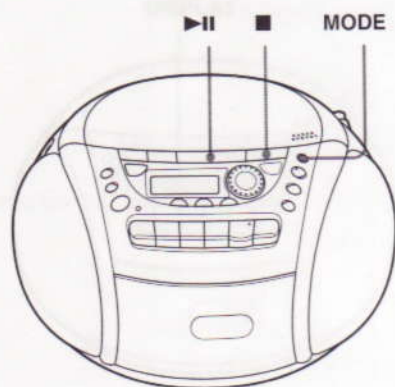
To repeat	Do this
a single track	<ol style="list-style-type: none"> 1 Press MODE until "REP 1" appears. 2 Turn the jog dial to select the track that you want to repeat. 3 Press ▶ .
all the tracks	<ol style="list-style-type: none"> 1 Press MODE until "REP ALL" appears. 2 Press ▶ .
tracks in random order	<ol style="list-style-type: none"> 1 Press MODE until "SHUF REP" appears. 2 Press ▶ .
programed tracks	<ol style="list-style-type: none"> 1 Press MODE until "PGM REP" appears. 2 Program tracks (see step 3 on page 14). 3 Press ▶ .

To cancel Repeat Play

Press MODE until "REP" disappears from the display.

Playing tracks in random order (Shuffle Play)

You can play tracks in random order.



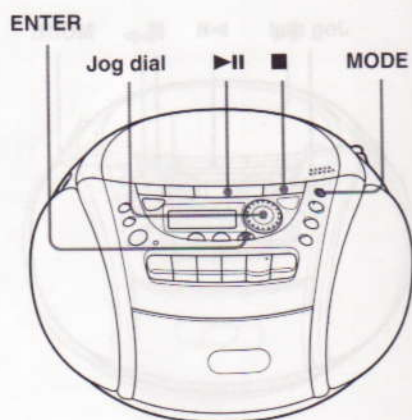
- 1 Press . "Cd" appears in the display.
- 2 Press MODE until "SHUF" appears in the display.
- 3 Press to start shuffle play.

To cancel Shuffle Play

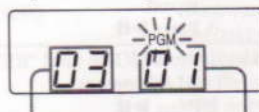
Press MODE until "SHUF" disappears from the display.

Creating your own program (Program Play)

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



- 1 Press . "Cd" appears in the display.
- 2 Press MODE until "PGM" appears in the display.
- 3 Turn the jog dial to select the track you want to program, and press ENTER. Repeat this step.



Programed track Playing order

- 4 Press to start program play.

To cancel Program Play

Press MODE until "PGM" disappears from display.

To check the order of tracks before play

Press ENTER.

Every time you press the button, the track number appears in the programed order.

To change the current program

Press ■ once if the CD is stopped and twice if the CD is playing. The current program will be erased. Then create a new program following the programing procedure.

Tips

- You can play the same program again, since the program is saved until you open the CD compartment.
- You can record your own program. After you've created the program, insert a blank tape and press ● to start recording.

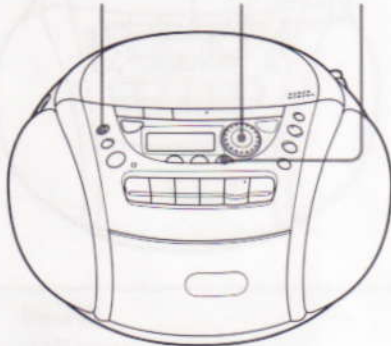


The Radio

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.

RADIO
BAND
AUTO PRESET Jog dial ENTER



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

- 2 Hold down RADIO•BAND•AUTO PRESET for 2 seconds until "AUTO" appears in the display.

- 3 Press ENTER.
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.
- 3 Hold down ENTER for 2 seconds.
- 4 Select the preset number you want to preset the new station on by turning the jog dial.
- 5 Press ENTER.

The new station replaces the old one.

Playing preset radio stations

Once you've preset the stations, use the jog dial on the player or PRESET +, - on the remote to tune in to your favorite stations.



- 1 Press RADIO•BAND•AUTO PRESET to select the band.
- 2 Turn the jog dial to tune in the stored station.

On the remote

- 1 Press BAND until the band you want appears in the display.
- 2 Press PRESET +, - to tune in a stored station.

Selecting the audio emphasis (MEGA BASS)

You can adjust the audio emphasis of the sound you are listening to.

MEGA BASS



Reinforcing the bass sound

Press MEGA BASS.

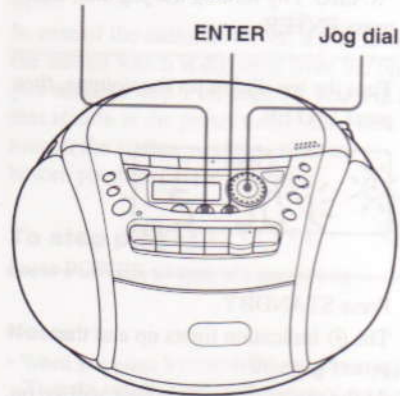
"MEGA BASS" appears in the display.

To return to normal sound, press the button again.

Setting the clock

"--" indication appears in the display until you set the clock.

CLOCK/SLEEP/TIMER



Before you set the clock, connect the power source (see page 23).

- 1 Hold down **CLOCK/SLEEP/TIMER** until "CLOCK" appears in the display. The hour digit flashes.



- 2 Turn the jog dial to set the current hour. Then press **ENTER**. The minute digits flash. Set the minutes by turning the jog dial until the correct minute is displayed.



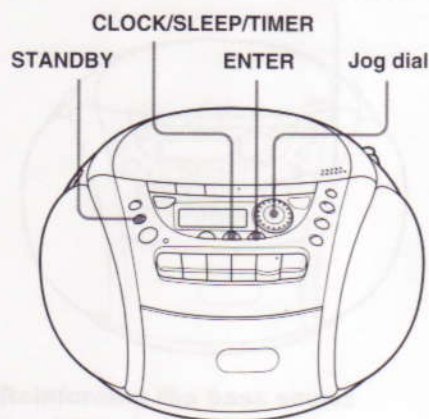
- 3 Press **ENTER**. The clock starts from 00 seconds.

Tip

The time display system: 12-hour system
AM 12:00 = midnight
PM 12:00 = noon

Waking up to music

You can wake up to music or a radio program at a preset time. Make sure you have set the clock ("Setting the clock" on page 19).



Before you begin, make sure the ☼ (clock) indication is not lit in the display. If it is lit, press STANDBY.

- 1 Prepare the music source you want to play.

To play	Do this
the radio	Tune in a station.
a CD	Insert a CD.

- 2 Press CLOCK/SLEEP/TIMER until "TIMER" appears in the display, then press ENTER.
The ☼ (clock) indication flashes.

- 3 Set the timer to the hour you want the music to start by turning the jog dial, then press ENTER.



Set the minutes, then press ENTER.

- 4 Set the timer to the hour and the minutes you want the music to go off (Do as step 3.)
- 5 Select the music source ("Cd" or "RADIO") by turning the jog dial, then press ENTER.
- 6 Turn the jog dial to set the volume, then press ENTER.



- 7 Press STANDBY.
The ☼ indication lights up and the power goes off.
At the preset time, the power will go on and the music will play. Then the power will go off at the preset time, and the player will enter into the standby mode.

To check/change when the playback will start

Press CLOCK/SLEEP/TIMER until "TIMER" appears in the display, then press ENTER. Each time you press ENTER, a stored setting is displayed in the set order. To change the setting, display the setting you want to change and re-enter it.

To use the player before a timer playback starts

turn on the player, and then you can use

If you turn off the player before the preset time, timer playback will start at the preset time.

In case of the radio, however, if you listen to the station which is different from the one you tuned in step 1 on page 20, you will hear that station at the preset time. Make sure to tune in the station you want to listen to before you turn off the player.

To stop play

Press POWER to turn off the power.

Notes

- When you press STANDBY in step 7 on page 20, make sure that ◀ or ▶ button of the tape player is not pressed.
- When you press ◀ or ▶ button of the tape player in the timer mode:
If the tape length of one side is longer than the set time, the player will be turned off at the end of the tape, not at the set time.

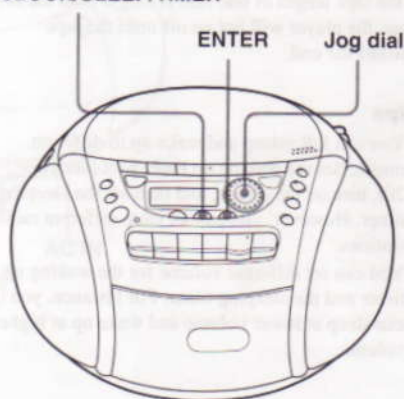
Tips

- To exit the standby mode, press STANDBY to make Ⓢ disappear from the display.
- The preset settings remain until you reset them.

Falling asleep to music

You can set the player to turn off automatically after 10, 20, 30, 60, 90, and 120 minutes, allowing you to fall asleep while listening to music.

CLOCK/SLEEP/TIMER



The Timer

- 1 Play the music source you want.
- 2 Press CLOCK/SLEEP/TIMER until "SLEEP" appears in the display, and press ENTER.
- 3 Turn the jog dial to select the minutes until the player goes off automatically. Each time you turn the jog dial, the indication changes as follows:
"60" → "90" → "120" → "OFF" →
"10" → "20" → "30."



continued

Falling asleep to music (continued)

To cancel the sleep function

Press **POWER** to turn off the power.

Note

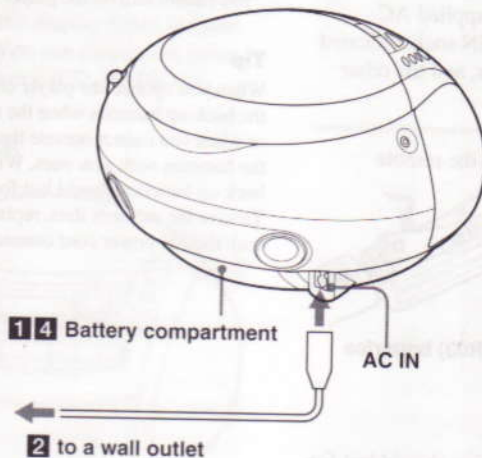
When you are playing a tape using this function:
If the tape length of one side is longer than the set time, the player will not go off until the tape reaches the end.

Tips

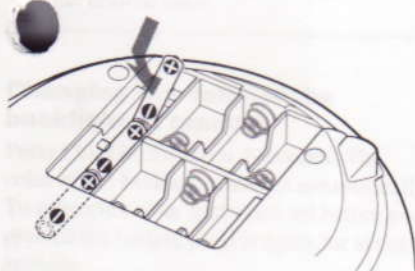
- You can fall asleep and wake up to different music. Set the waking up timer first (see page 20), turn on the power, and then set the sleeping timer. However, you cannot store different radio stations.
- You can set different volume for the waking up timer and the sleeping timer. For instance, you can sleep at lower volume and wake up at higher volume.

Choosing the power sources

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

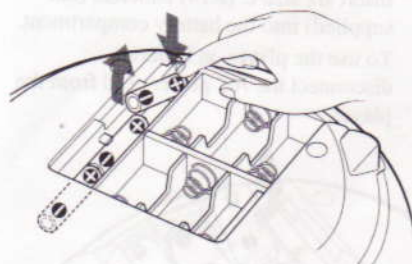


- 1** Inserting the back-up batteries
Insert three size AA (R6) batteries (not supplied) into the battery compartment. These batteries work to save the memory data.



Replacing batteries

Take out the batteries as illustrated.



Note

Before you replace the batteries, be sure to take out the CD from the player.

continued

Choosing the power sources (continued)

- 2** Connecting the AC power cord
Insert one end of the supplied AC power cord to the AC IN socket located at the rear of the player, and the other end to the wall outlet.

- 3** Inserting batteries into the remote

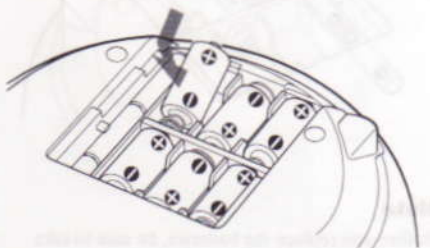


Insert two size AAA (R03) batteries (not supplied).

Replacing batteries

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

- 4** 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 cord 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.

Notes

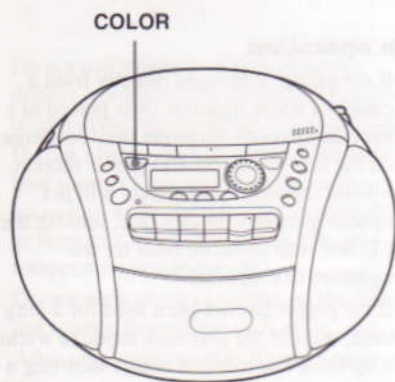
- Before you replace the batteries, be sure to take out the CD from the player.
- When you operate the player on the batteries, you cannot turn on the player with remote.

Tip

When you operate the player on batteries, replace the back-up batteries when the time display dims or when you cannot operate the timer. Replace all the batteries with new ones. With normal use, the back-up batteries should last for about six months. To save the memory data, replace the batteries with the AC power cord connected.

Changing the backlight color in the display

The backlight in the display lights in three different colors. You can change the color for each music source (CD, RADIO or TAPE).



- 1 Play the music source (CD, RADIO or TAPE) for which you want to change the backlight color.
- 2 Press COLOR until the display lights in the desired color.

Changing the color of the backlight at random

Press COLOR for about 2 seconds. The color of the backlight changes automatically. To return the color to the one set before you pressed the button, press it again for about 2 seconds.

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 cord; 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 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.

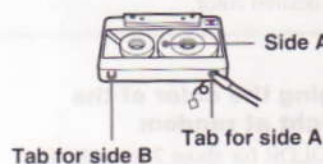
- If the player is left in a car parked in the sun, be sure to choose a location in the car where the player will not be subjected to the direct rays of the sun.
- Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or spring-wound watches away from the player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

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.
- If the player has not been used for a long time, set it in the playback mode to warm it up for a few minutes before inserting a cassette.

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.

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 benzene, 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 CD-DA format*, but playback capability may vary depending on the quality of the disc and the condition of the recording device.

*CD-DA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for the Audio CDs.

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.

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 cord to the AC IN socket and a 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 player with the remote when you operate the player on batteries.

There is no audio.

- Unplug the headphones when listening through speakers.

The power is turned off abruptly.

- Replace all the batteries with new ones.

Unusual sound is heard.

The sound is noisy, weak or has poor quality.

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

Various indications appear in the display one after another.

- The player is in the demonstration mode.
 - Set the clock, or turn on and then press DISPLAY for about 2 seconds to cancel the demonstration mode.

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.

continued

Troubleshooting (continued)

CD Player

The CD does not play or "no diSC" lights in the display even when a CD is in place.

- Place the CD with the label surface up.
- Clean the CD.
- Take out the CD and leave the CD compartment open for about an hour to dry moisture condensation.
- The CD-R/CD-RW 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.
- Replace all the batteries with new ones if they are weak.

The sound drops out. Noise is heard.

- 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.

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.
- If you are using the remote while listening to an AM radio, noise may be heard. This is unavoidable.

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.

Tape Player

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

- Close the tape compartment securely.

The REC ● button does not function.

The tape does not play.

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

The tape does not erase completely.

- Clean the erasing head (see page 30).
- Replace all the batteries with new ones if they are weak.
- The source which was recorded on TYPE II (high position) or TYPE IV (metal) tape using this unit is being played. Record on TYPE I (normal) tape and play.

The tape does not record.

- Make sure the tape is inserted properly.
- Make sure the safety tab of the cassette is in place.

The audio is weak.

The audio quality is poor.

- Clean the heads, pinch roller and capstan (see page 30).
- Demagnetize the heads using a demagnetizer (see page 30).

The sound is distorted.

- The TYPE II (high position) or TYPE IV (metal) tape is being used. Use TYPE I (normal) tape only.

Timer

The timer does not operate.

- Make sure the time on the clock is correct.
- Check to see if the AC power had been cut off.
- Make sure the ⌚ (clock) indication is displayed.

Remote

Remote does not function.

- Replace all the batteries in the remote with new ones if they are weak.
- Make sure that you are pointing the remote at the remote sensor on the player.
- Remove any obstacles in the path of the remote and the player.
- Make sure the remote sensor is not exposed to strong light such as direct sunlight or fluorescent lamp light.
- Move closer to the player when using the remote.

After trying the above remedies, if you still have problems, unplug the AC power cord and remove all the batteries. After all the indications in the display disappear, plug the power cord 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 affect the playback of audio discs. CD cleaning is not recommended. Use a soft, lint-free cloth to clean the lens.

Cleaning the tape heads

When the heads are dirty, the tape may not be played correctly. Use a head cleaning tape to clean the heads. Do not use any other cleaning method.

Head over time

Head over time is a phenomenon where the tape heads wear out over time. This is a normal part of the tape's life cycle. To extend the life of the tape, use it regularly and store it properly.

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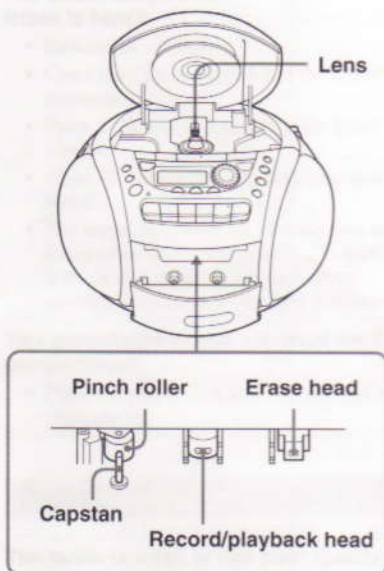
Maintenance

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 tape heads and tape path

Wipe the heads, the pinch roller and the capstan with a cleaning swab slightly moistened with cleaning fluid or alcohol after every 10 hours of operation for optimum playback and recording quality. To make the best possible recording, however, we recommend that you clean all surfaces over which tape travels before each recording.



After cleaning, insert a tape when the areas cleaned are completely dry.

Demagnetizing the tape heads

After 20 to 30 hours of use, enough residual magnetism will have built up on the tape heads to begin to cause loss of high frequency sound and hiss. At this time, you should demagnetize the heads and all metal parts in the tape path with a commercially available tape head demagnetizer.

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

RADIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 4-ohm loads, both channels driven from 100 - 10 000 Hz; rated 1.5 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

200 r/min (rpm) to 500 r/min (rpm) (CLV)

Number of channels

2

Frequency response

20 - 20 000 Hz

Wow and flutter

Below measurable limit

Radio section

Frequency range

FM: 87.5 - 108 MHz

AM: Taiwan model: 531 - 1 611 kHz

Other models: 530 - 1 710 kHz

Antennas

1: Telescopic antenna

4: Built-in ferrite bar antenna

Cassette-corder section

Recording system

4-track 2 channel stereo

Fast winding time

Approx. 110 sec. with Sony cassette C-60

Frequency response

TYPE I (normal): 50 - 15 000 Hz

General

Speaker

Full range: 8 cm (3 1/4 in.) dia., 4 Ω, cone type (2)

Outputs

Headphones jack (stereo minijack)

For 16 - 68 Ω impedance headphones

Power output

1.8 W + 1.8 W (at 4 Ω, 10 % harmonic distortion)

Power requirements

For CD radio cassette-corder:

120 V AC, 60 Hz

9 V DC, 6 size C (R14) batteries

For memory back-up:

4.5 V DC, 3 size AA (R6) batteries

For remote control:

3 V DC, 2 size AAA (R03) batteries

Power consumption

AC 14 W

Battery life

For CD radio cassette-corder:

FM recording

Sony R14P: approx. 13.5 h

Sony alkaline LR14: approx. 20 h

Tape playback

Sony R14P: approx. 7.5 h

Sony alkaline LR14: approx. 15 h

CD playback

Sony R14P: approx. 2.5 h

Sony alkaline LR14: approx. 7 h

Dimensions

Approx. 272 × 164 × 285 mm (w/h/d)

(10 3/4 × 6 1/2 × 11 1/4 inches) (incl. projecting parts)

Mass

Approx. 3 kg (6 lb. 10 oz) (incl. batteries)

Supplied accessories

AC power cord (1)

Remote control (1)

Design and specifications are subject to change without notice.

Optional accessories

Sony MDR headphones series

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For customers in the USA

Please register this product on line at <http://www.sony.com/productregistration>.

Proper registration will enable us to send you periodic mailings about new products, services and other important announcements. Registering your product will also allow us to contact you in the unlikely event that the product needs adjustment or modification. Thank you.