

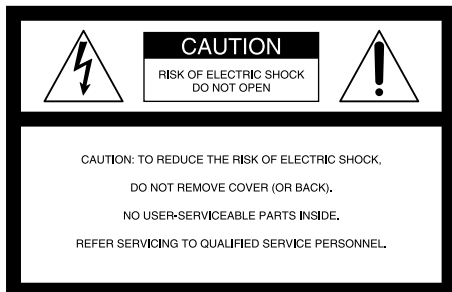
CD Radio Cassette-Corder

Operating Instructions

***CFD-S28
CFD-S38***

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.

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 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. _____

Serial No. _____

About this manual

The instructions in this manual are for the CFD-S28 and CFD-S38. Before you start reading, check your model number. The CFD-S38 is the model used for illustration purpose.

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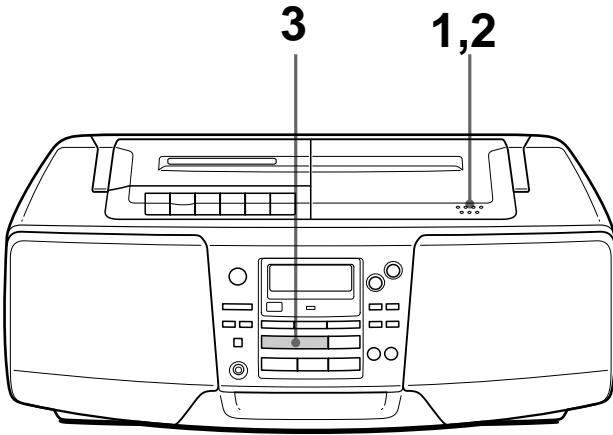
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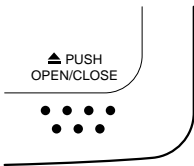
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Playing a CD

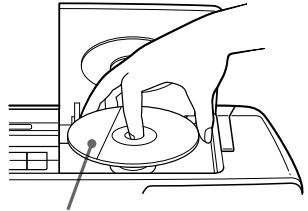


Connect the supplied AC power cord (see page 25).

1

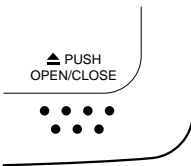


Press ▲ PUSH OPEN/CLOSE down to open the CD compartment and place the CD on the CD compartment.

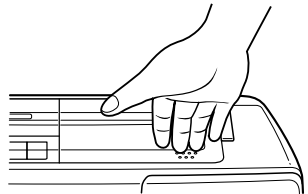


With the label side up

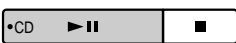
2



Close the lid of the CD compartment.



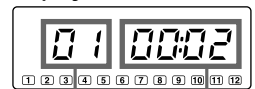
3



Press ▶||.

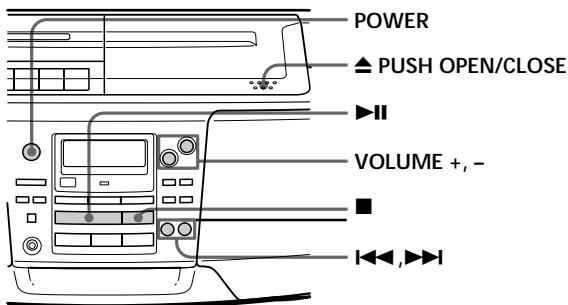
The player turns on (direct power-on) and plays all the tracks once.

Display



Track number Playing time

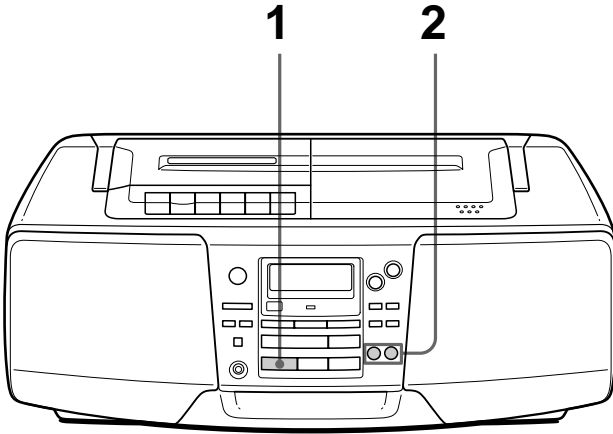
Use these buttons for additional operations

**Tip**

Next time you want to listen to a CD, just press **▶||**. The player turns on automatically and starts playing the CD.

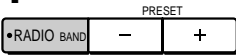
To	Press
adjust the volume	VOLUME +, - (VOL +, - on the remote, CFD-S38 only)
stop playback	■
pause playback	▶ (on the remote, CFD-S38 only) Press the button again to resume play after pause.
go to the next track	▶▶
go back to the previous track	◀◀
remove the CD	▲ PUSH OPEN/CLOSE
turn on/off the player	POWER

Listening to the radio



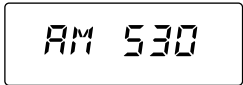
Connect the supplied AC power cord (see page 25).

1

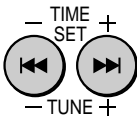


Press RADIO BAND until the band you want appears in the display (direct power-on).

Display

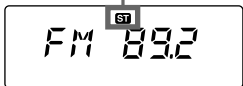


2



Hold down TIME SET • TUNE + or - (TUNE + or - on the remote, CFD-S38 only) until the frequency digits begin to change in the display.

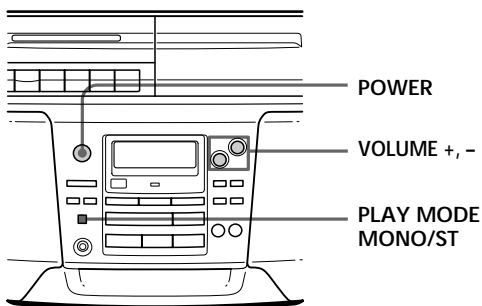
Indicates an FM stereo broadcast



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.

Use these buttons for additional operations



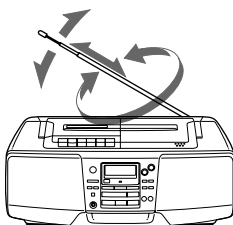
Tips

- If the FM broadcast is noisy, press **PLAY MODE • MONO/ST** until "Mono" appears in the display and the radio will play in monaural.
- Next time you want to listen to the radio, just press **RADIO BAND**. The player turns on automatically and starts playing the previous station.

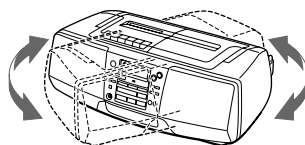
To	Press
adjust the volume	VOLUME +, - (VOL +, - on the remote, CFD-S38 only)
turn on/off the radio	POWER

To improve broadcast reception

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

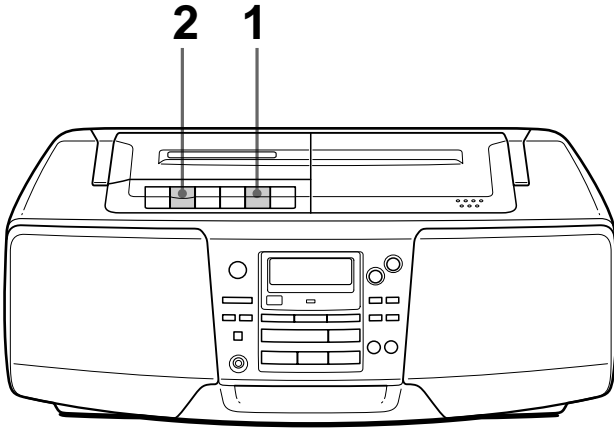


for FM



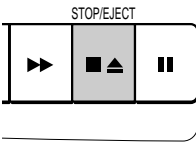
for AM

Playing a tape



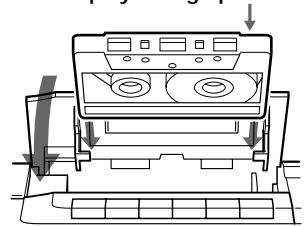
Connect the supplied AC power cord (see page 25).

1

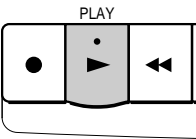


Press **■▲** to open the tape compartment and insert a recorded tape. Use TYPE I (normal) tape only. Close the compartment.

With the side you want to play facing upward



2



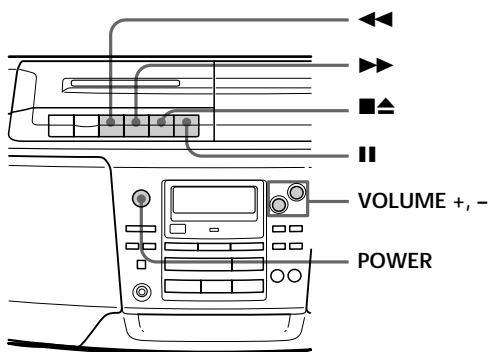
Press **▶**.

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

Display

TAPE

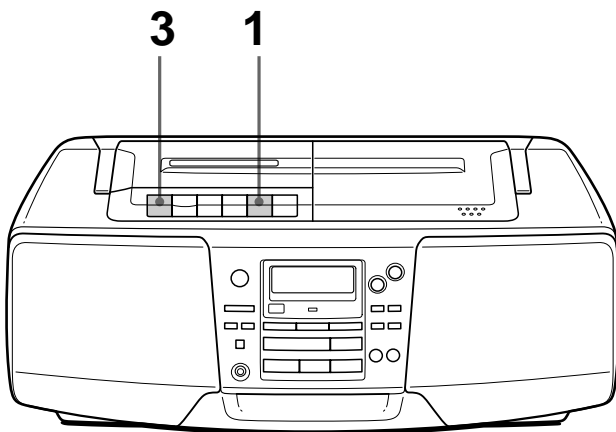
Use these buttons for additional operations

**Tip**

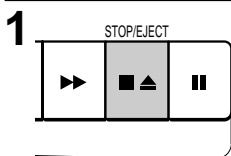
Next time you want to listen to a tape, just press ►. The player turns on automatically and starts playing the tape.

To	Press
adjust the volume	VOLUME +, - (VOL +, - on the remote, CFD-S38 only)
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

Recording on a tape

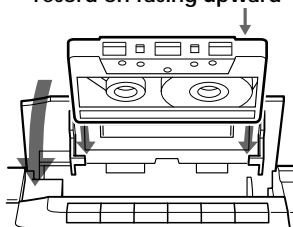


Connect the supplied AC power cord (see page 25).



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 upward



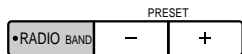
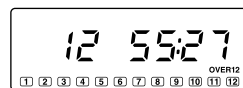
2

Select the program source you want to record.

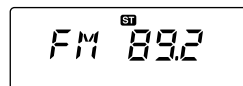


To record from the CD player, insert a CD (see page 4) and press **■▲** on the CD section.

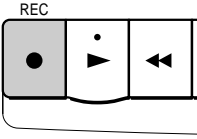
Display



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

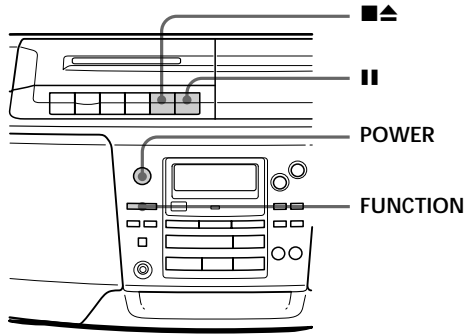


3



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

Use these buttons for additional operations



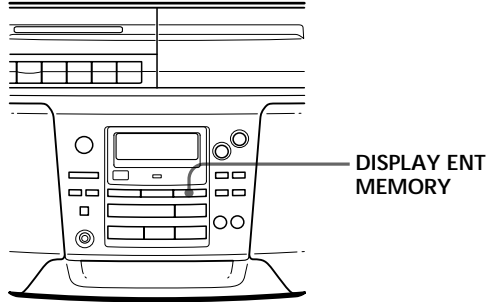
Tips

- Adjusting the volume or the audio emphasis (see page 27) will not affect the recording level.
- 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 to select "TAPE".
 - 3 Press ●.

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

Using the display

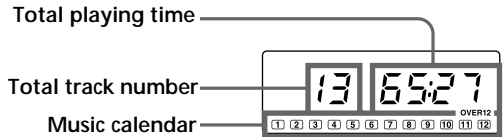
You can check information about the CD using the display.



Checking the total track number and playing time

Press DISPLAY ENT•MEMORY in stop mode.

If the CD has more than 12 tracks, “OVER 12” appears in the display.



Checking the remaining time

Press DISPLAY ENT•MEMORY while playing a CD.

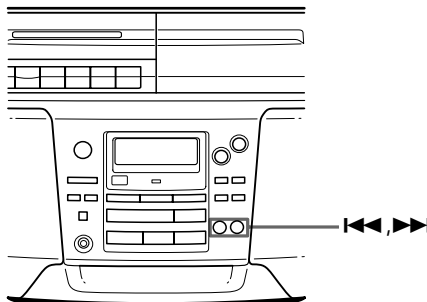
The track numbers in the music calendar disappear after they are played.

To display	Press DISPLAY ENT•MEMORY
the current track number and the remaining time on the current track*	once
the number of tracks left and remaining time on the CD	twice
the current track number and playing time	three times

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

Locating a specific point in a track

You can quickly find a specific point in a track while playing a CD. You can also locate any track using the number buttons on the remote (CFD-S38 only).



Note

CFD-S38 only:

You cannot locate a specific track if “SHUF” or “PGM” is lit in the display. Turn off the indication by pressing ■.

Tip

CFD-S38 only:

When you locate a track numbered over 10, press >10 first, then the corresponding number buttons.

Example:

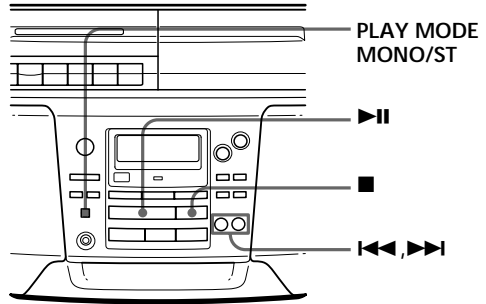
To play track number 23, press >10 first, then 2 and 3.

To locate	Press
a point while listening to the sound	▶▶ (forward) or ◀◀ (backward) while playing and hold down until you find the point
a point while observing the display	▶▶ (forward) or ◀◀ (backward) in pause and hold down until you find the point
a specific track directly (CFD-S38 only)	the number button of the track on the remote

Playing tracks repeatedly

(Repeat Play)

You can play tracks repeatedly in normal, shuffle or program play modes (see page 16).



On the remote (CFD-S38 only)

- 1 Press ■.
- 2 Press MODE until the repeat mode you want appears in the display.
- 3 Do either of the following to start repeat play:
 - When you've selected "REP 1", select the track by pressing the number button.
 - When you've selected "REP ALL" or "SHUF REP", press ▶.
 - When you've selected "PGM REP", program tracks (see step 3 on page 16), then press

- 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 PLAY MODE • MONO/ST until "REP 1" appears. 2 Press ◀◀ or ▶▶ to select the track that you want to repeat. 3 Press ▶▶.
all the tracks	<ol style="list-style-type: none"> 1 Press PLAY MODE • MONO/ST until "REP ALL" appears. 2 Press ▶▶.
tracks in random order	<ol style="list-style-type: none"> 1 Press PLAY MODE • MONO/ST until "SHUF REP" appears. 2 Press ▶▶.
programmed tracks	<ol style="list-style-type: none"> 1 Press PLAY MODE • MONO/ST until "PGM REP" appears. 2 Program tracks (see step 3 on page 16). 3 Press ▶▶.

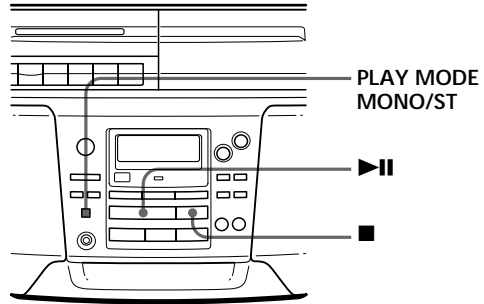
To cancel Repeat Play

Press PLAY MODE • MONO/ST until "REP" disappears from the display.

Playing tracks in random order

(Shuffle Play)

You can play tracks in random order.



On the remote (CFD-S38 only)

- 1 Press ■.
- 2 Press MODE until "SHUF" appears in the display.
- 3 Press ►.

- 1 Press ■.
"Cd" appears in the display.
- 2 Press PLAY MODE•MONO/ST until "SHUF" appears in the display.
- 3 Press ►|| to start shuffle play.

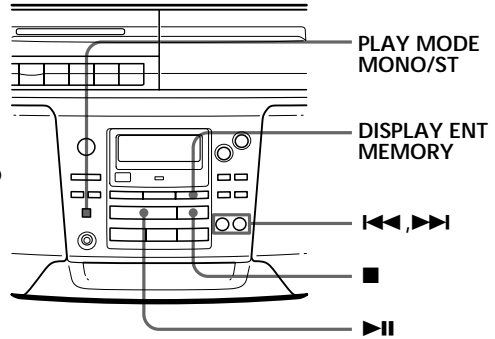
To cancel Shuffle Play

Press PLAY MODE•MONO/ST until "SHUF" disappears from the display.

Creating your own program

(Program Play)

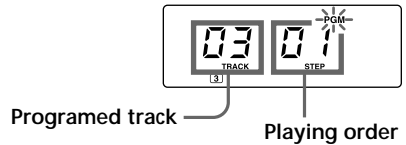
You can arrange the playing order of up to 20 tracks on a CD.



On the remote (CFD-S38 only)

- 1 Press ■.
- 2 Press MODE until "PGM" appears in the display.
- 3 Press the number buttons for the tracks you want to program in the order you want.
- 4 Press ►.

- 1 Press ■.
"Cd" appears in the display.
- 2 Press PLAY MODE • MONO/ST until "PGM" flashes in the display.
- 3 Press the ◀◀ or ▶▶ then press DISPLAY ENT • MEMORY for the tracks you want to program in the order you want.



The programed tracks appear in the music calender.

- 4 Press ►► to start program play.

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.

To cancel Program Play

Press **PLAY MODE**•**MONO/ST** until "PGM" disappears from the display.

To check the order of tracks before play

Press **DISPLAY ENT**•**MEMORY**.

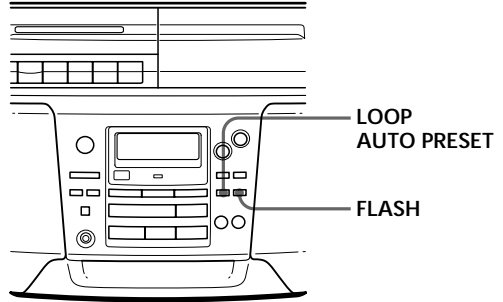
Every time you press the button, the track number appears in the programmed order.

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 programming procedure.

Enjoying sound effects (LOOP/FLASH)

You can repeat part of a CD (LOOP) and can “flash” the CD sound (FLASH) during playback.



- 1 Play a CD.
- 2 Press and hold LOOP • AUTO PRESET or FLASH at the point you want to start the function.

To	Press and hold
repeat a selected part of a CD	LOOP • AUTO PRESET
“flash” the CD sound	FLASH

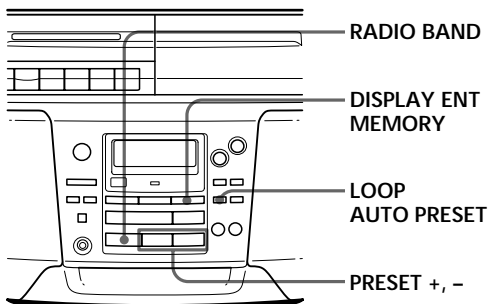
To cancel the LOOP or FLASH function

Release the button.

The player returns to normal play.

Presetting radio stations

You can store radio stations into the player's memory. You can preset up to 20 radio stations, 10 for each band in any order.



On the remote (CFD-S38 only)

- 1 Press BAND until the band you want appears in the display.
- 2 Tune in a station you want.
- 3 Hold down the number buttons that you want to preset the new station on for about 2 seconds.

- 1 Press RADIO BAND until the band you want appears in the display.
- 2 Hold down LOOP • AUTO PRESET for 2 seconds until "AUTO" appears in the display.
The stations are stored in memory from the lower frequencies to the higher ones.

If a station cannot be preset automatically

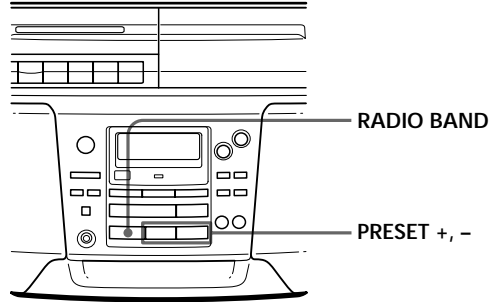
You need to preset a station with a weak signal manually.

- 1 Press RADIO BAND to select the band.
- 2 Tune in a station you want.
- 3 Hold down DISPLAY ENT • MEMORY for about 2 seconds.
- 4 Press PRESET + or - until the preset number (1 to 10) you want for the station flashes in the music calender.
- 5 Press DISPLAY ENT • MEMORY.

The new station replaces the old one.

Playing preset radio stations

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



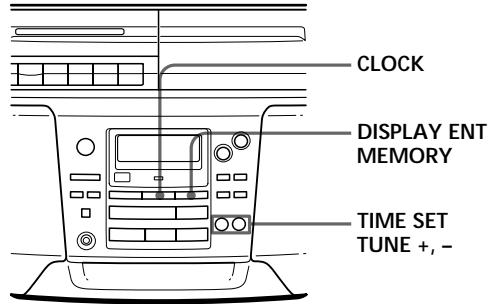
On the remote (CFD-S38 only)

- 1 Press BAND to select the band.
- 2 Press the number buttons to tune in the stored station.

- 1 Press RADIO BAND to select the band.
- 2 Press PRESET + or - to tune in the stored station.

Setting the clock

“-:-” indication appears in the display until you set the clock.



Tip
 The time display system:
 12-hour system

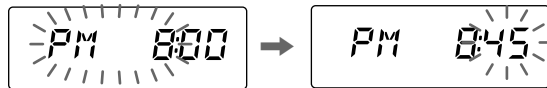
Before you set the clock, connect the AC power cord (page 24).

- 1** Press **CLOCK** for 2 seconds until the hour digit flashes.



- 2** Press **TIME SET • TUNE +** or **-** until you set the current hour. Then press **DISPLAY ENT • MEMORY**.

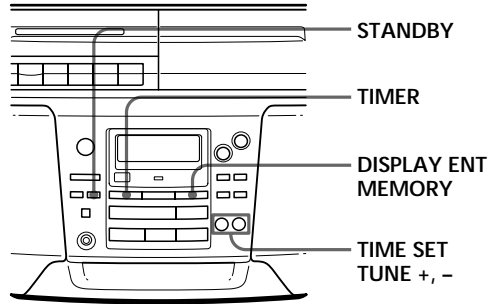
The minute digits flash. Set the minutes by pressing **TIME SET • TUNE +** or **-** until the correct minute is displayed.



- 3** Press **DISPLAY ENT • MEMORY**.
 The clock starts from 00 seconds.

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 21).



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.

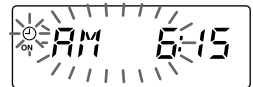
To play	Do this
the radio	Tune in a station
a CD	Insert a CD

2 Press TIMER.

The ☹ (clock) and the music source (“Cd” or “RADIO”) flash.

3 Select the music source (“Cd” or “RADIO”) by pressing TIME SET•TUNE + or –, then DISPLAY ENT•MEMORY.

4 Set the timer to the hour you want the music to start by pressing TIME SET•TUNE + or –, then DISPLAY ENT•MEMORY.



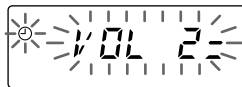
Set the minutes, then press DISPLAY ENT•MEMORY.

5 Set the timer to the hour and the minutes you want the music to go off. (Do as step 4.)

Tips

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

- 6** Press **TIME SET•TUNE +** or **-** to set the volume, then **DISPLAY ENT•MEMORY**.



- 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 **TIMER**, then **DISPLAY ENT•MEMORY**. Each time you press **DISPLAY ENT•MEMORY**, 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

Just turn on the player, and then you can use it.

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

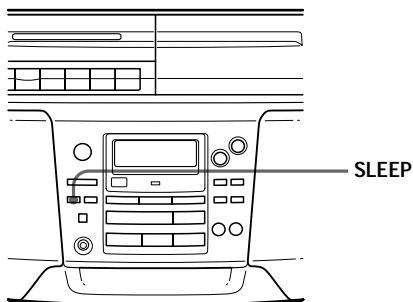
In case of the radio, however, if you listen to the station which is different from the one you tuned in in step 1 on page 22, you will hear that station at the preset time. Make sure to tune in the station you want to listen to before you turn off the player.

To stop play

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

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.



Tip

You can fall asleep and wake up to different music. Set the waking up timer first (see page 22), turn on the power, and then set the sleeping timer. However, you cannot store different radio stations.

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.

- 1 Play the music source you want.
- 2 Press SLEEP to display "SLEEP."
- 3 Press SLEEP to select the minutes until the player goes off automatically.

Each time you press the button, the indication changes as follows: "60" → "90" → "120" → no indication → "10" → "20" → "30."

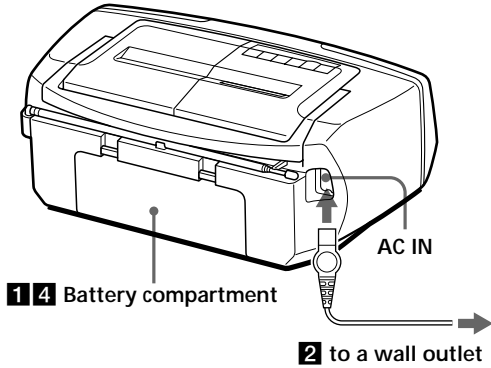


To cancel the sleep function

Press POWER to turn off the power.

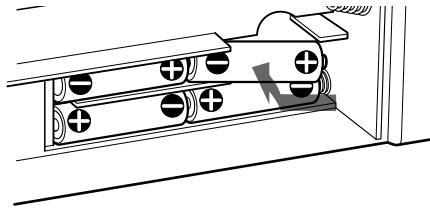
Choosing the power sources

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



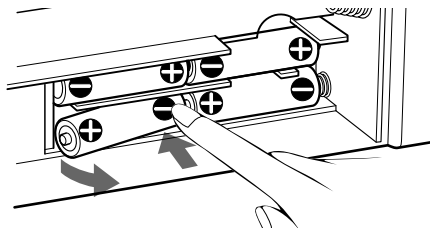
1 Inserting the back-up batteries

Insert four 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.



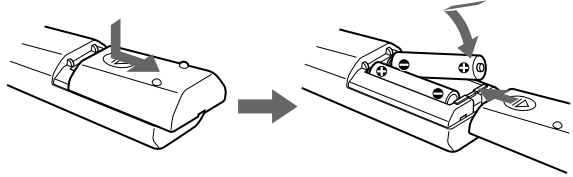
2 Connecting the AC power cord

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.

continued

Choosing the power sources (continued)

3 Inserting batteries into the remote (CFD-S38 only)



Insert two size AA (R6) 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.

Note

CFD-S38 only:

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

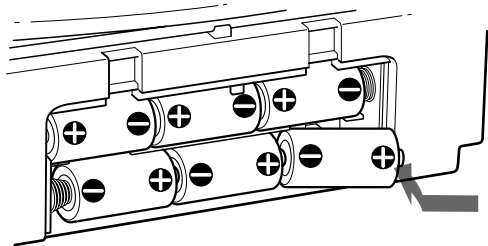
Tip

Replace the batteries when the OPR/BATT indicator dims or when the player stops operating. Replace all the batteries with new ones. Before you replace the batteries, be sure to take out the CD from the player.

4 Using the player on batteries

Insert six size D (R20) batteries (not supplied) into the battery compartment.

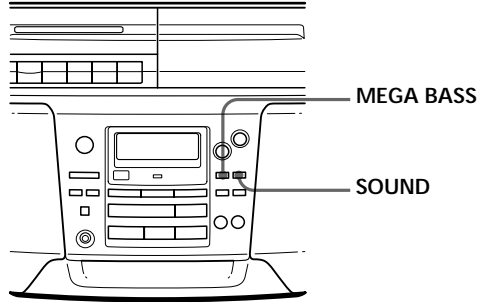
To use the player on batteries, disconnect the AC power cord from the player.



Selecting the audio emphasis

(Sound Mode/MEGA BASS)

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



On the remote (CFD-S38 only)
Press SOUND repeatedly to select the audio emphasis you want.

Selecting the sound characteristic

Press SOUND repeatedly to select the audio emphasis you want.

Choose	To get
ROCK	powerful, clean sounds, emphasizing low and high range audio
POP	light, bright sounds emphasizing high and middle range audio
LIVE	percussive sounds, emphasizing bass audio
VOCAL	the presence of vocals, stressing middle range audio
OFF	the whole dynamic range for music such as classical music

Reinforcing the bass sound

Press MEGA BASS.

"MEGA BASS" appears in the display.

To return to normal sound, press the button again.

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.

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 to be used for an extended period of time.
- For battery operation, use six size D (R20) 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.

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

Notes on CDs

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

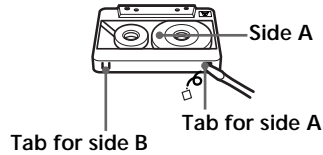


- Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight as there can be a considerable rise in temperature 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.

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.

Troubleshooting

	Symptom	Remedy
General	The power is not on.	<ul style="list-style-type: none"> • Connect the AC power cord to a wall outlet securely. • Make sure the batteries are inserted correctly. • You cannot turn on the player with the remote when you operate the player on batteries (CFD-S38 only).
	There is no audio.	<ul style="list-style-type: none"> • Make sure the function you want to use appears in the display window. • Adjust the volume. • Unplug the headphones when listening through speakers.
	“no disc” lights in the display even when a CD is in place.	<ul style="list-style-type: none"> • Insert the CD with the label surface up.
CD Player	The CD does not play.	<ul style="list-style-type: none"> • Make sure that the CD compartment is closed. • 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. • Make sure “Cd” appears in the display.
	The sound drops out.	<ul style="list-style-type: none"> • Reduce the volume. • Clean the CD, or replace it if the CD is badly damaged • Place the player in a location free from vibration.
	The audio is weak or has poor quality.	<ul style="list-style-type: none"> • 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 AM radio, noise may be heard. This is unavoidable.
Radio	The picture of your TV becomes unstable.	<ul style="list-style-type: none"> • If you are listening to an FM program near the TV with an indoor antenna, move the player away from the TV.

	Symptom	Remedy
Tape Player	The tape does not move when you press an operation button.	<ul style="list-style-type: none"> • Close the tape compartment securely.
	The REC ● button does not function/The tape does not play.	<ul style="list-style-type: none"> • Make sure the safety tab on the cassette is in place. • Make sure “TAPE” appears in the display.
	The tape does not erase completely.	<ul style="list-style-type: none"> • Clean the erasing head (see page 32). • 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.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • Clean the heads, pinch roller and capstan (see page 32). • Demagnetize the heads using a demagnetizer (see page 32).
	The sound is distorted.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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 (CFD-S38 only)	The remote does not function.

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 cause a skipping of sound during CD operation. Clean with a commercially available blower.

Cleaning the tape heads and tape path

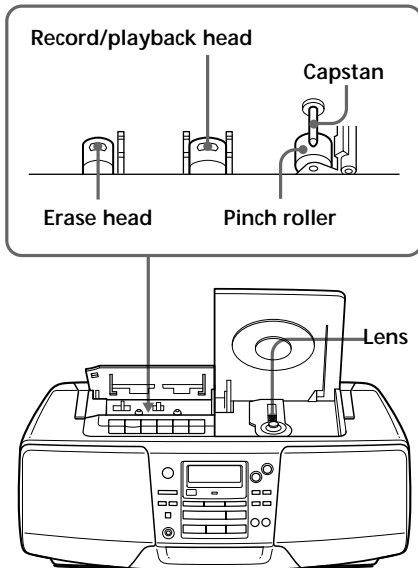
Wipe the heads, the pinch roller and the capstan with a cleaning swab slightly moistened with cleaning fluid or alcohol after every 10 hours of operation for optimum playback and recording quality. To make the best possible recording, however, we recommend that you clean all surfaces over which tape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

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.



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

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 6-ohm loads, both channels driven from 100 - 10,000 Hz; rated 4 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 μ 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

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

Number of channels

2

Frequency response

20 - 20,000 Hz $\pm 1/-2$ dB

Wow and flutter

Below measurable limit

Radio section

Frequency range

FM: 87.6 - 108 MHz

AM: 530 - 1,710 kHz

Aerials

FM: Telescopic aerial

AM: Built-in ferrite bar aerial

Cassette-corder section

Recording system

4-track 2 channel stereo

Fast winding time

Approx. 120 sec. with Sony cassette C-60

Frequency response

TYPE I (normal): 70 - 13,000 Hz

General

Speaker

Full range: 10 cm (4 in.) dia.,
6 ohms, cone type (2)

Outputs

Headphones jack (stereo minijack)

For 16 - 68 ohms impedance headphones

Power output (except US model)

4.5 W + 4.5 W (at 6 ohms, 10 % harmonic distortion)

Power requirements

For CD radio cassette-corder:

120 V AC, 60 Hz

9 V DC, 6 size D (R20) batteries

For memory back-up:

6 V DC, 4 size AA (R6) batteries

For remote control (CFD-S38 only):

3 V DC, 2 size AA (R6) batteries

Power consumption

AC 25 W

Battery life

For CD radio cassette-corder:

FM recording

Sony R20P: approx. 3.5 h

Sony alkaline LR20: approx. 10 h

Tape playback

Sony R20P: approx. 1.5 h

Sony alkaline LR20: approx. 5 h

CD playback

Sony R20P: approx. 1 h

Sony alkaline LR20: approx. 4 h

Dimensions

Approx. 420 \times 156 \times 262 mm (w/h/d)

(16 $\frac{3}{8}$ \times 6 $\frac{1}{4}$ \times 10 $\frac{3}{8}$ inches) (incl. projecting parts)

Mass

Approx. 4.7 kg (10 lb. 6 oz) (incl. batteries)

Supplied accessories

AC power cord (1)

Remote control (1) (CFD-S38 only)

Design and specifications are subject to change without notice.

Optional accessories

Sony MDR headphones series

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