

## Radio Cassette-Corder

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# CFS-219/229

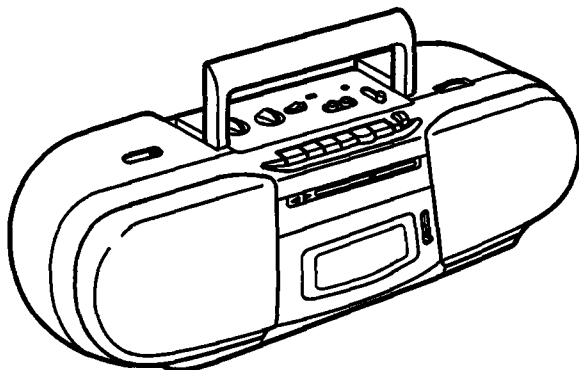
## Operating Instructions

Before operating the player, please read this manual thoroughly and retain it for future reference.

## Owner's Record

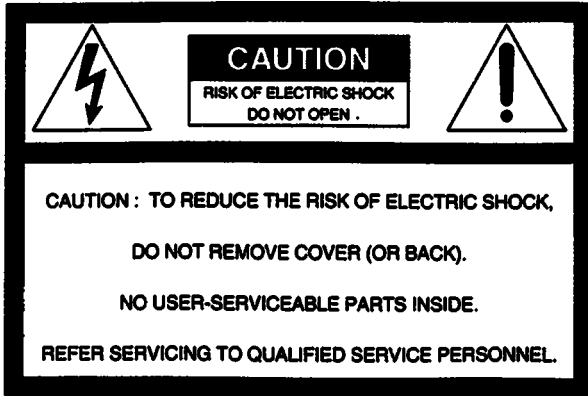
The model number is located on the bottom, and the serial number is located in the battery compartment. Record these numbers in the spaces provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

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



# 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.

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

## For customers in Canada

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

# About This Manual

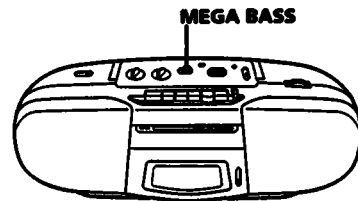
The instructions in this manual are for the CFS-219 and CFS-229. The CFS-229 is the model used for illustration purposes. The difference between the CFS-219 and the CFS-229 is that the CFS-229 has the MEGA BASS feature.

## Differences in appearance

### CFS-219



### CFS-229



# Precautions

## Notes on power sources

- For AC operation, use the supplied AC power cord; do not use any other type.
- For battery operation, use six size D (R20) batteries.
- When the operational batteries are not to be used, remove them to avoid damage that can be caused by battery leakage or corrosion.
- Unplug the player from the wall outlet when it is not to be used for an extended time.
- The nameplate indicating operating voltage, power consumption, etc. is located on the bottom.

## Handling the player

- Do not leave the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- 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.
- Do not lift the handle when the telescopic antenna is extended.
- 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.

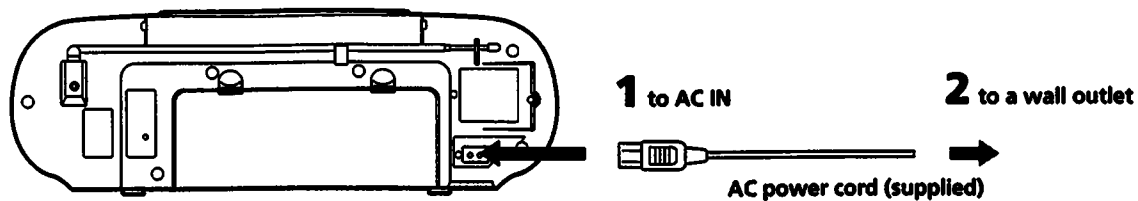
## Note on cassette

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

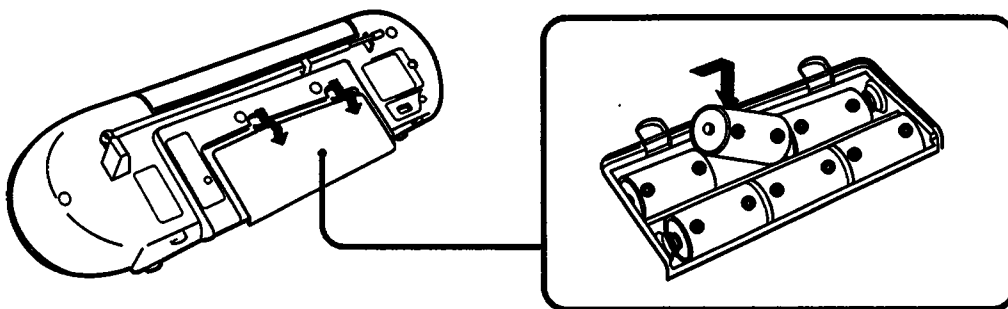
If you have any questions or problems concerning your player, please consult your nearest Sony dealer.

# Power Sources

Connect the supplied AC power cord to the AC IN jack.



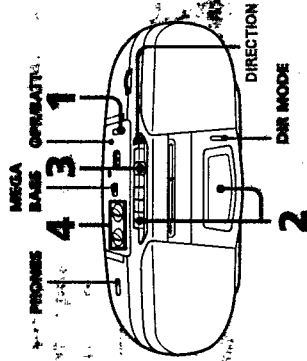
Insert six size D (R20) batteries.



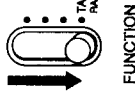
## Notes

- The player cannot be operated on the internal batteries when the AC power cord is connected to the player.
- When OPR/BATT indicator dims, replace all batteries with new ones.
- For critical recording, operating the player on AC power is recommended.

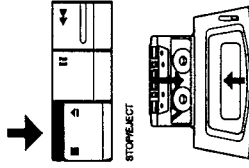
## Playing a Tape



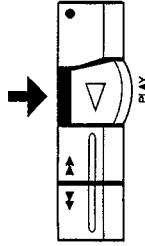
### 1 Set to TAPE/RADIO OFF.



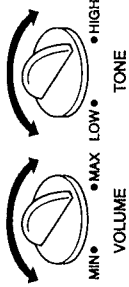
### 2 Insert a cassette.



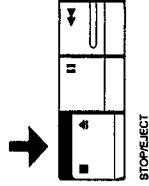
### 3 Press <math>\blacktriangleleft</math> PLAY.



### 4 Adjust VOLUME and TONE, if necessary.



### To stop playing



When you want to	Press
wind tape rapidly in <math>\blacktriangleleft</math> direction	<math>\blacktriangleleft</math>
wind tape rapidly in <math>\blacktriangleright</math> direction	<math>\blacktriangleright</math>
pause playback/recording	II
release pause	II
remove a cassette	■▲

After winding with <math>\blacktriangleleft</math> FF or <math>\blacktriangleright</math> REW, press ■▲ STOP/EJECT to release <math>\blacktriangleleft</math> FF or <math>\blacktriangleright</math> REW.

### For private listening

Connect stereo headphones to PHONES jack.

### When the player is in use

The OPR/BATT (operation/battery) indicator lights. Intensity of glow shows battery level.

### To listen to the reverse side of the tape

Press DIRECTION. The <math>\blacktriangleleft</math> or <math>\blacktriangleright</math> (forward/reverse) indicator shows which side of the cassette is being played.

### To select the playback mode

When you want to	Set DIR MODE to
Play both sides of a cassette once*	<math>\blacktriangleleft</math>
Play one side of a cassette	<math>\blacktriangleright</math>

\* Playback should be started from the forward (front) side. Be sure to set the <math>\blacktriangleleft</math> indicator to <math>\blacktriangleleft</math>. If not, the tape will stop playing when the playing of the reverse side is finished, even if the DIR MODE selector is set to <math>\blacktriangleleft</math>.

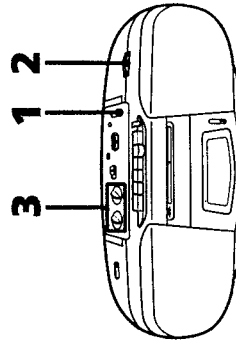
To emphasize the bass sound (CFS-229 only)  
Set the MEGA BASS selector as follows:

To emphasize	Set to
heavy bass greatly	MAX
heavy bass slightly	MID
no emphasis	NORM

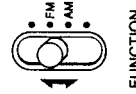
### Note on MEGA BASS (CFS-229 only)

The MEGA BASS system contains the Dynamic Base Boost (DBB) circuit.  
The DBB varies the amount of boost in the low frequency range depending on the volume control, producing a deep and powerful bass sound.  
It is most effective at low volume level.

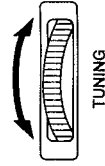
## Listening to the Radio



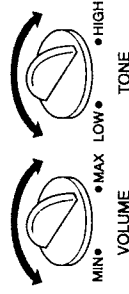
### 1 Select FM or AM.



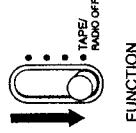
### 2 Tune in the desired station.



### 3 Adjust VOLUME and TONE, if necessary.

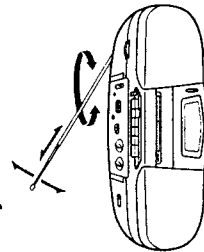


### To turn off the radio

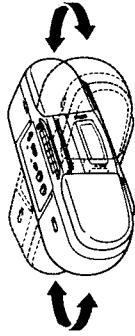


### Antenna adjustment

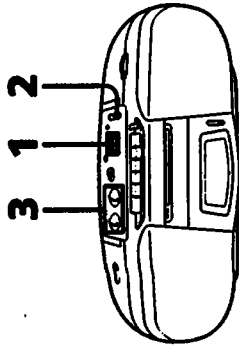
FM



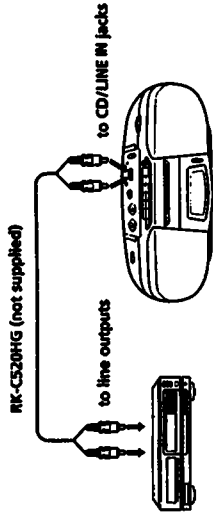
AM



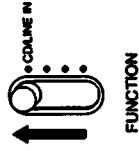
# Listening to Other Sound Sources



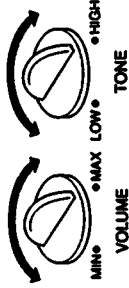
**1** Connect the component.



**2** Set to CD/LINE IN.



**3** Play the sound source and adjust VOLUME and TONE, if necessary.



## Notes on connection

- Set the FUNCTION selector to TAPE/RADIO OFF before making connection.
- The plugs of the connecting cord should be fully inserted into the jacks.
- Note that the red plug of the connecting cord is for the R (right) channel and the white plug for the L (left) channel.

# Recording

Use only TYPE I (normal) tapes for recording.

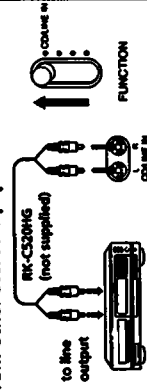
**1** From radio



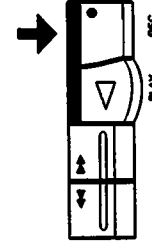
From built-in microphone (MIC)



From other stereo equipment

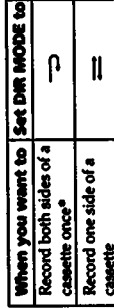


**2** Press ● REC.



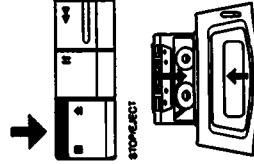
◁ PLAY is pressed automatically.

**3** Select the recording mode.

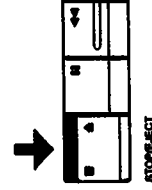


- Record should be started from the forward (front) side. Be sure to set the stop recording when the recording of the reverse side is finished, even if the DIR MODE selector is set to →.

**2** Insert a blank cassette.



To stop recording

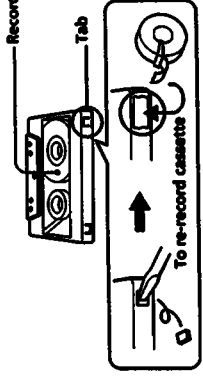


When the tape reaches its end, ● REC and ◁ PLAY are released automatically.

No volume and tone adjustments are necessary. Recording level is automatically set. Volume and tone adjustments will not affect recording level.

While recording from the built-in microphone You cannot monitor the sound through the headphones.

To prevent accidental erasure Break off the tab corresponding to the side which has been recorded. Recording on that side will be protected.



# Troubleshooting Guide

## The player does not operate.

- The AC power cord is not connected.
- No batteries in battery compartment.
- Batteries installed incorrectly.
- Weak battery. Replace all the batteries with new ones.

## Cassette cannot be inserted.

- Cassette is being inserted improperly.
- ◀ PLAY is depressed.

## Tape does not move.

- || PAUSE is depressed.

## ● REC cannot be depressed.

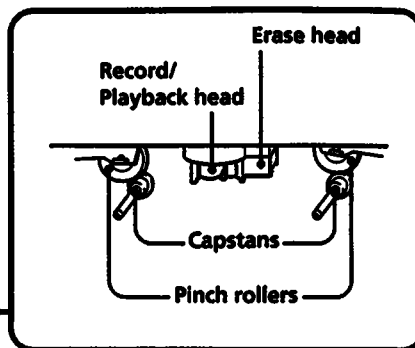
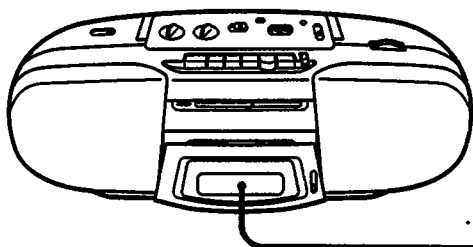
- No cassette in the holder.
- The cassette inserted has its tab removed. Use another cassette or cover the slot with plastic tape.
- ◀◀ FF or ▶▶ REW has been depressed.

## No sound from speakers.

- Headphones are plugged in.
- The VOLUME control is turned down completely.
- The FUNCTION selector setting is incorrect.

## Poor playback, recording or erase quality.

- Dirty heads. Clean the illustrated portions with cotton swab lightly moistened with cleaning fluid or denatured alcohol.



# Specifications

## AUDIO POWER SPECIFICATIONS

### POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 3.2-ohm loads, both channels driven, from 150 to 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

Frequency range	FM: 87.6–108 MHz AM: 530–1,710 kHz
Antennas	FM: Telescopic antenna AM: Built-in ferrite bar
Recording system	4-track, 2-channel stereo
Frequency response	80–10,000 Hz
Speakers	Two way 10 cm (4 inches) dia. full range × 2 2 cm (13/16 inches) dia. tweeter × 2
Input	CD/LINE IN jacks (stereo pinjacks) (2) input impedance 47 kilohms, sensitivity 0.44 V
Output	Headphones jack (stereo minijack) for 16–68 ohm impedance headphones
Power output (except for USA)	2.3 W + 2.3 W (at 3.2 ohms, 10 % harmonic distortion in DC operation)
Power requirements	120 V AC, 60 Hz 9 V DC, six size D (R 20) batteries

Power consumption	14 W in AC operation
Battery life	

Batteries	FM recording	Tape playback
Sony SUM-1 (NS)	Approx. 12 hours	Approx. 7 hours
Sony AM1 alkaline	Approx. 24 hours	Approx. 14 hours

Dimensions	Approx. 428 × 153 × 147.5 mm (w/h/d) (16 7/8 × 6 1/8 × 5 7/8 inches) incl. projecting parts and controls, not incl. handle
Mass	Approx. 2.9 kg (6 lb 6 oz) incl. batteries
Accessory supplied	AC power cord (1)
Optional accessories	Sony "MDR" headphone series

Design and specifications subject to change without notice.