

## Radio Cassette-Corder

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# CFS-E60

### 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 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. CFS-E60

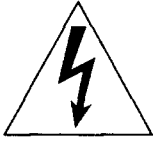
Serial No. \_\_\_\_\_

## WARNING

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

## CAUTION

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

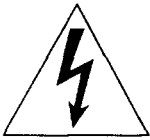


### CAUTION

RISK OF ELECTRIC SHOCK  
DO NOT OPEN



CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK,  
DO NOT REMOVE COVER (OR BACK).  
NO USER-SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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.

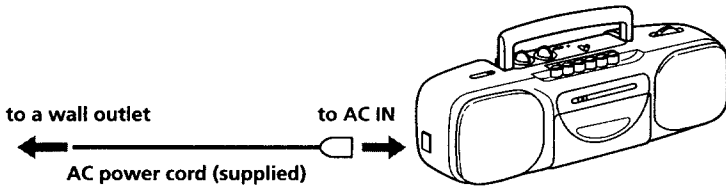


This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

# Choosing Power Sources

## House Current

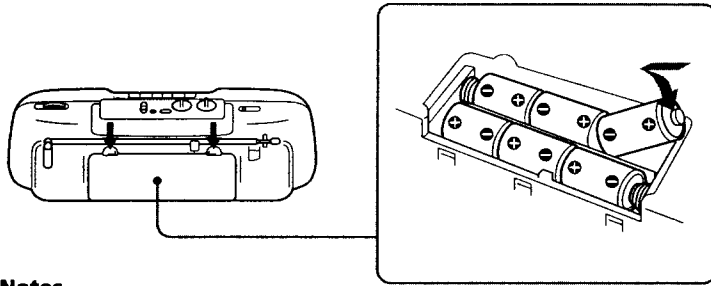
Connect the supplied AC power cord to the AC IN jack. The OPR/BATT indicator lights up during operation.



For critical recording, operating the player on AC power is recommended.

## Batteries

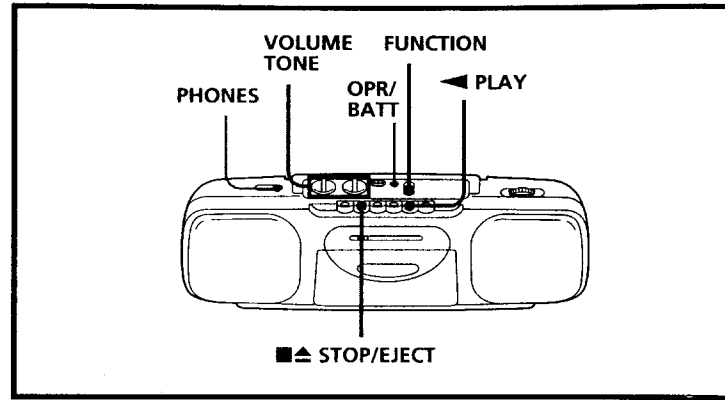
Insert six size D (R20) batteries.



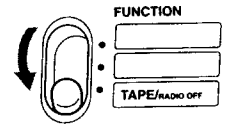
### Notes

- The player cannot be operated on the batteries when the AC power cord is connected to the player.
- When the OPR/BATT indicator glows faintly, replace all batteries.

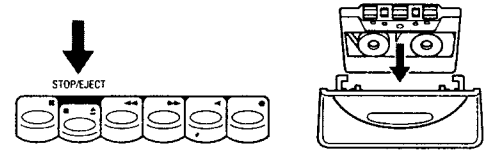
# Playing a Tape Use only TYPE I (normal) tapes.



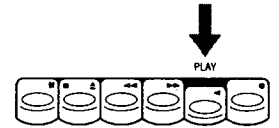
1 Set FUNCTION to TAPE/RADIO OFF.



2 Insert a cassette.

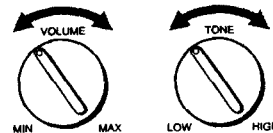


3 Press PLAY.



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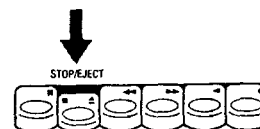
**4** Adjust VOLUME and TONE, if necessary.



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**To stop playback**

When the tape reaches the end,  
◀PLAY is released automatically.



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**Other tape operations**

To fast forward the tape, press  
◀◀FF.

To rewind the tape, press  
▶▶REW.

To pause for a moment, press  
||PAUSE.

To resume playing after a pause,  
press ||PAUSE.

To remove the cassette, press  
■▲STOP/EJECT.

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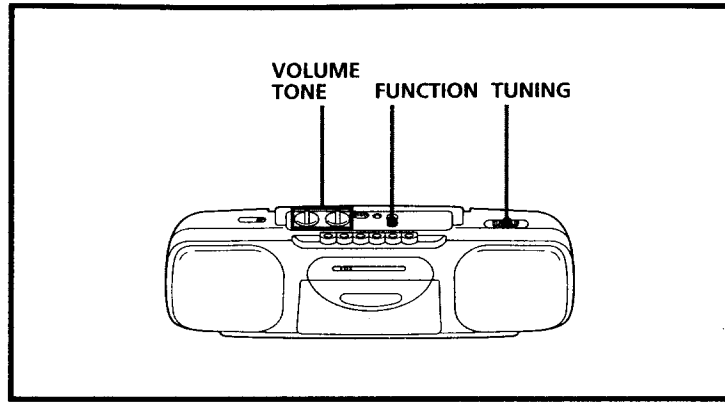
**When the player is in use**

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

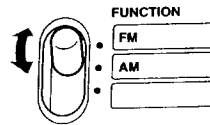
**For private listening**

Connect stereo headphones to the  
PHONES jack.

## Listening to the Radio



- 1** Select the desired band.

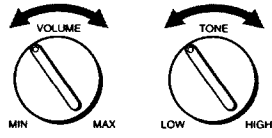


- 2** Tune in a desired station.



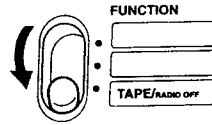
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**3** Adjust the VOLUME and TONE, if necessary.



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**To turn off the radio**

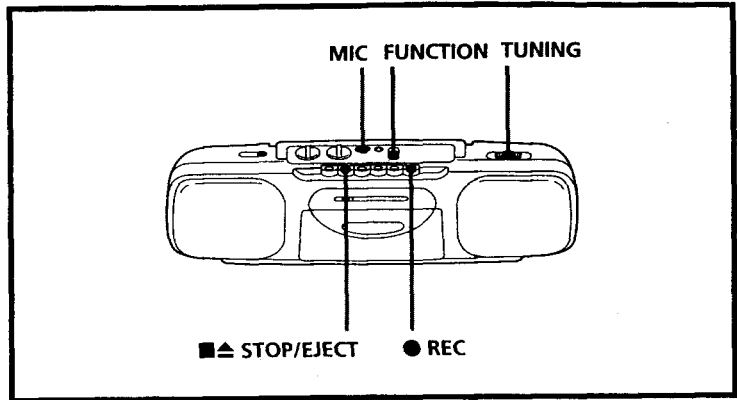


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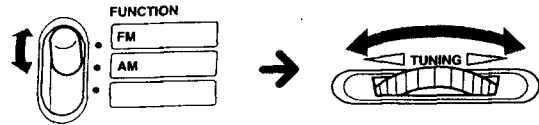
**Adjusting the antenna**



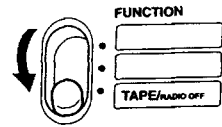
# Recording Use only TYPE I (normal) tapes.



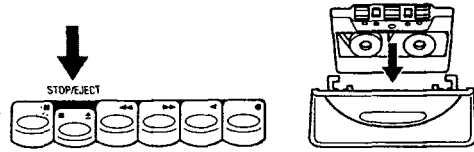
## 1 From radio



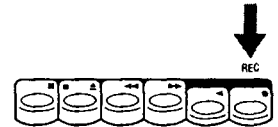
From built-in microphone (MIC)



## 2 Insert a blank cassette.

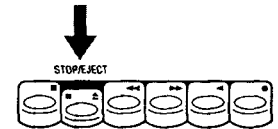


**3** Press ●REC.  
◀PLAY is depressed  
automatically.



**To stop recording**

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



**While recording from the  
built-in microphone**

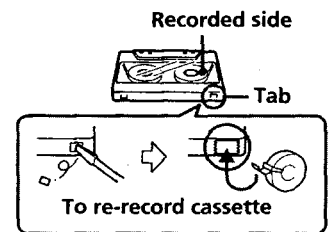
You cannot monitor the sound  
through the headphones.

**Neither volume nor tone  
adjustment is necessary**

The recording level is set  
automatically. Volume and tone  
adjustments will not affect the  
recording level.

**To prevent accidental  
erasure**

Break off the tab corresponding to  
the side to be recorded on.  
Recording on that side will be  
protected.





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## 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 batteries are not to be used for a long time, 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 at 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.
- 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.

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## Specifications

### AUDIO POWER SPECIFICATIONS

#### POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 3.2 ohm loads, both channels driven, from 150–10,000 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	100–10,000 Hz									
Speakers	Full-range: 10 cm (4 inches) dia. x 2, cone type									
Output	Headphones jack, 16–68 ohms impedance									
Power requirements	120 V AC, 60 Hz 9 V DC, six size D (R 20) batteries									
Power consumption	10 W									
Battery life	<table><thead><tr><th>Batteries</th><th>FM recording</th><th>Playback</th></tr></thead><tbody><tr><td>Sony R20P</td><td>Approx. 18 hours</td><td>Approx. 8 hours</td></tr><tr><td>Sony LR20 alkaline</td><td>Approx. 30 hours</td><td>Approx. 15 hours</td></tr></tbody></table>	Batteries	FM recording	Playback	Sony R20P	Approx. 18 hours	Approx. 8 hours	Sony LR20 alkaline	Approx. 30 hours	Approx. 15 hours
Batteries	FM recording	Playback								
Sony R20P	Approx. 18 hours	Approx. 8 hours								
Sony LR20 alkaline	Approx. 30 hours	Approx. 15 hours								
Dimensions	Approx. 440 x 144 x 152 mm (w/h/d) (17 3/8 x 5 3/4 x 6 inches) incl. projecting parts and controls									
Mass	Approx. 2.8 kg (6 lb 3 oz) incl. batteries									
Accessory supplied	AC power cord (1)									
Optional accessories	Sony "MDR" headphone series									

Design and specifications are subject to change without notice.

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## Troubleshooting Guide

### **The player does not operate.**

- The AC power cord is not connected (on AC operation).
- No batteries in battery compartment.
- Incorrect polarity of batteries.
- Weak batteries. Replace all batteries.

### **Cassette cannot be inserted.**

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

### **The ●REC button cannot be depressed.**

- No cassette in deck.
- The inserted cassette has its tab removed; cover the tab slot with plastic tape, or use another cassette.

### **Tape does not move.**

- The ■PAUSE button is depressed.

### **No sound from the speakers.**

- The headphones are plugged in.
- The VOLUME control is turned to its minimum (MIN) position.
- Check the FUNCTION selector setting.

### **Poor playback, recording or erasing quality.**

- Dirty heads. Clean the illustrated portions with a cleaning tip slightly moistened with cleaning fluid or alcohol.
- Demagnetize the heads and all metal parts in the tape path with a commercially available head demagnetizer.

