

Radio Cassette-corder

CFS-203

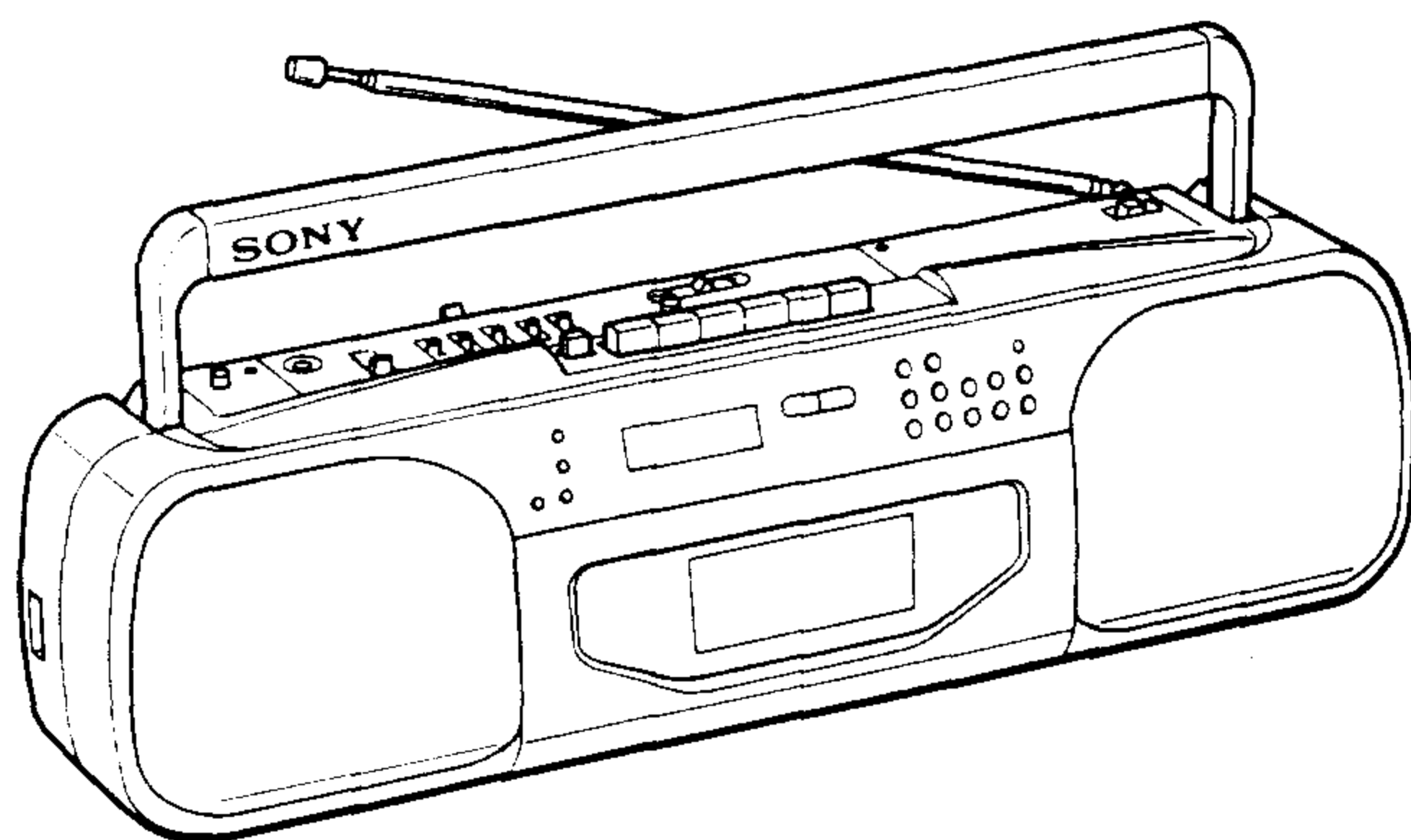
Operating Instructions

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

Owner's Record

The model number and the serial number are located on the bottom. 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-203 Serial No. _____



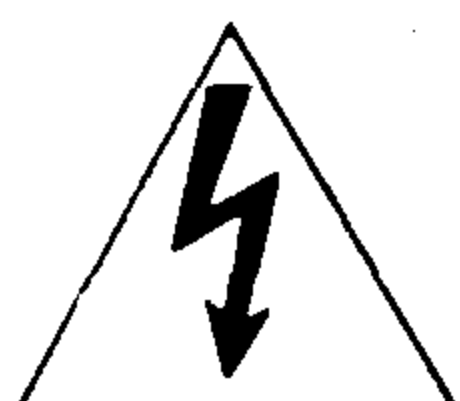
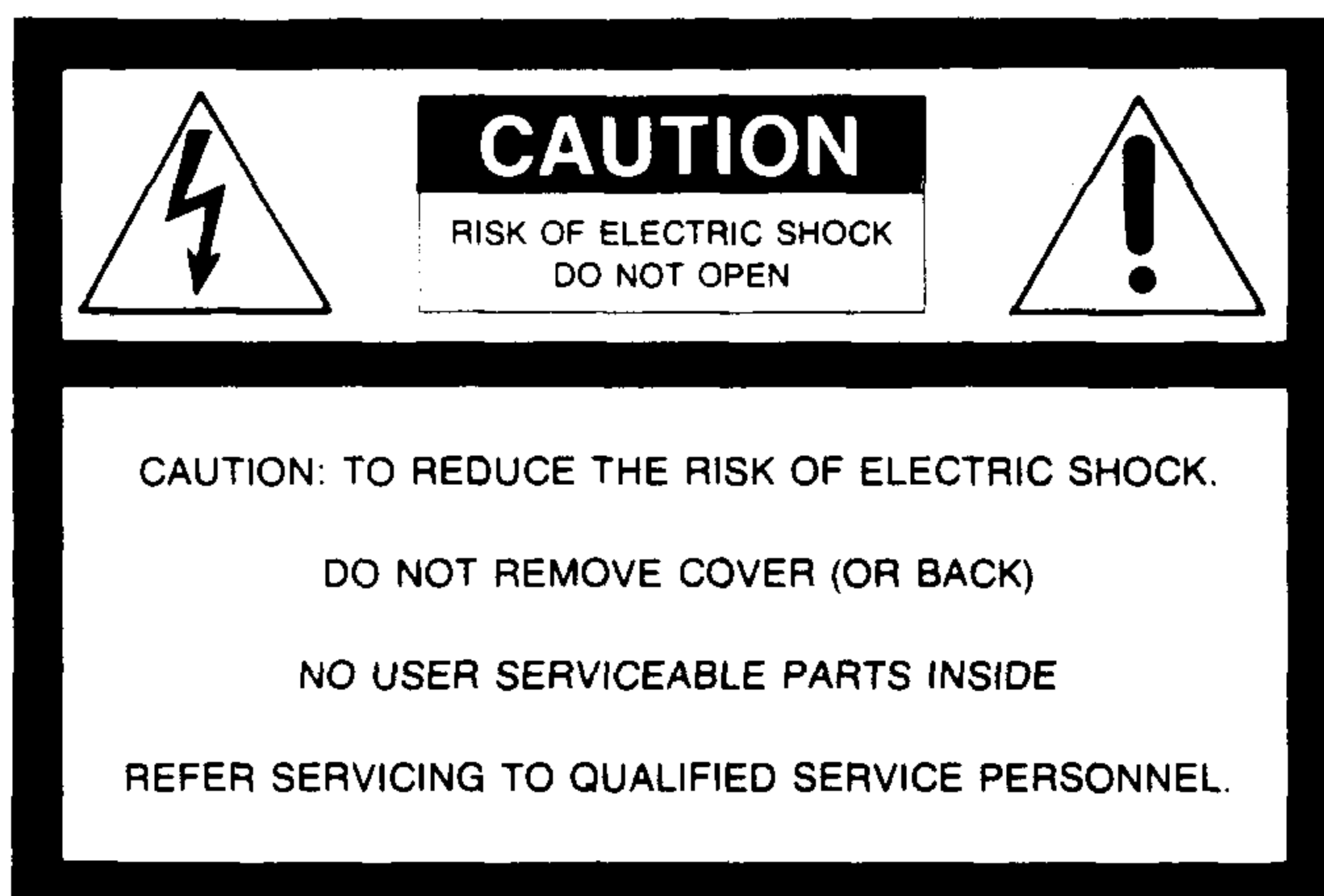
PROPERTY OF THE
NATIONAL TECHNICAL DEPT.

FILE 2017

Do not remove

WARNING

To prevent fire or shock hazard, do not expose the unit 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.

INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause 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 the receiving antenna
- Relocate the equipment with respect to the receiver
- Move the equipment away from the receiver
- Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

Precautions

- Operate the unit only on 120V AC or 9V DC with six size D (R20) batteries.
For AC operation, use the supplied AC power cord: do not use any other type.
- Unplug the unit from the wall outlet when it is not to be used for an extended period of time.
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- The nameplate indicating operating voltage is located on the bottom of the unit.
- When the internal batteries are not to be used, remove them to avoid damage caused by battery leakage and corrosion.
- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust, mechanical vibration, or shock.
- Should any solid object or liquid fall into the unit, unplug the unit and remove the batteries, and have the unit checked by qualified personnel before operating it any further.
- Be careful not to lift the handle while telescopic antenna is in a raised position.
- If the unit has not been used for a long time, set it in playback mode and warm it up for a few minutes before inserting a cassette.
- The use of cassette longer than 90 minutes is not recommended except for long continuous recording or playback.

If you have any question or problem concerning your unit that is not covered in this manual, please consult your nearest Sony dealer.

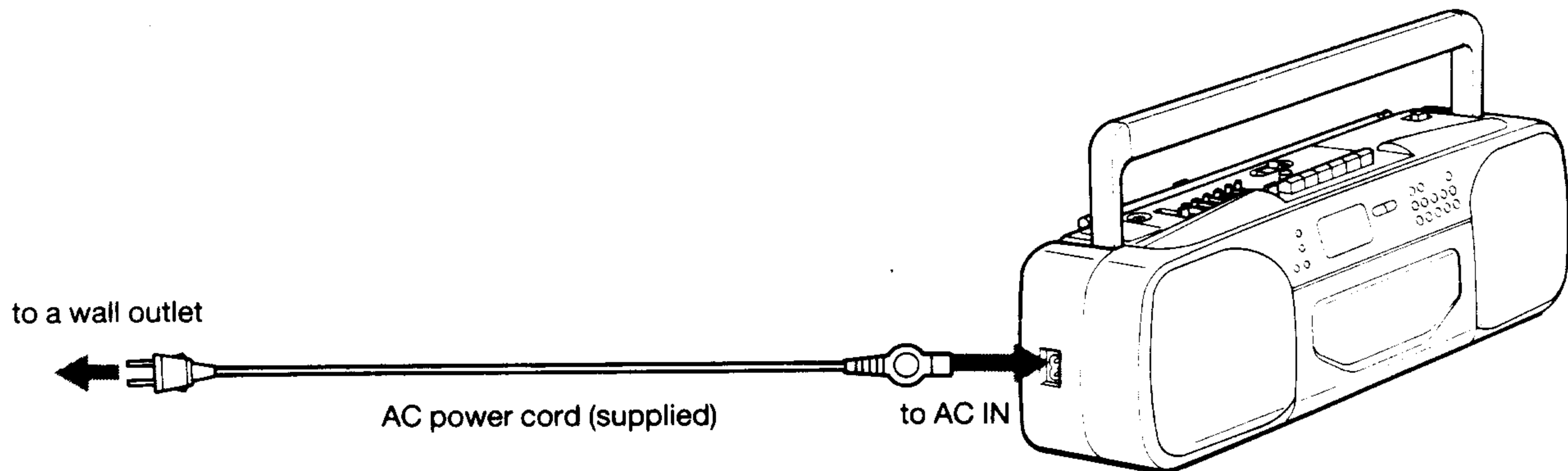
For the customers in Canada

This apparatus complies with the class B limits for radio noise emissions set out in radio interference regulations.

Power Sources

House Current

Connect the supplied AC power cord as shown.



For critical recording

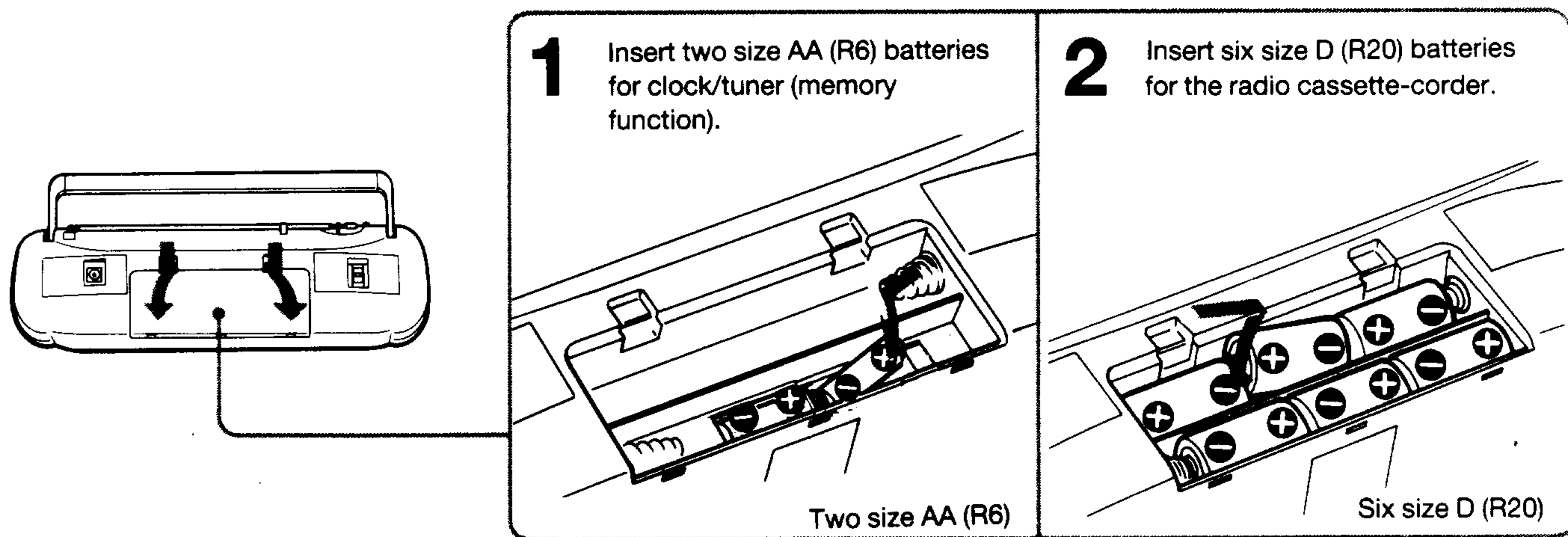
Operating the unit on AC power source is recommended.

Note

The batteries for the clock/tuner (memory function) should be inserted even when the unit is operated on AC power source.

Batteries

The unit cannot be operated on the internal batteries when the AC power cord is connected to the unit.



Polarity of the batteries

Insert the batteries with correct polarity and in the order indicated on the rear of the unit.

For information on battery life
See "Specifications".

Battery replacement

Batteries for clock/tuner memory

- When the batteries become weak, the indication in the display window becomes faint. Replace the batteries with new ones.
- When you replace the batteries for clock/tuner (memory function), be sure to connect the AC power cord to the unit and to an AC outlet, and to set FUNCTION to RADIO.

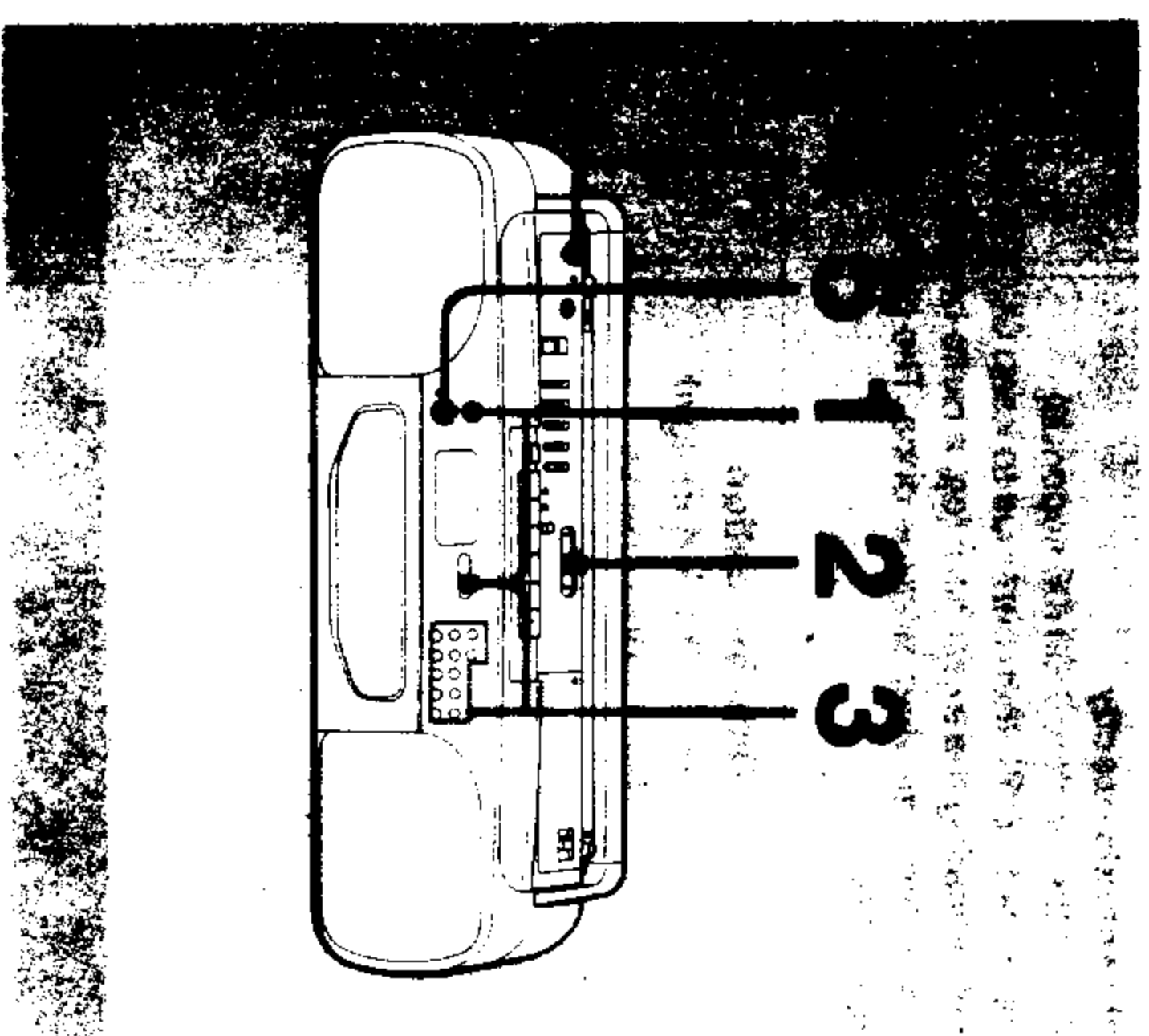
Batteries for operation of the radio cassette-corder

- When the batteries become weak, the OPR/BATT (operation/battery) indicator will glow faintly. In this case, replace all batteries with new ones.

Using the Timer

You can wake up to or fall asleep to radio program

Wake Up to the Radio



<p>1 Set the wake-up time while keeping TIMER pressed, press + or - SCAN/TIME SET.</p>	<p>2</p>	<p>3 Select the desired band and tune in a desired station.</p>	<p>4 Set TIMER/SLEEP ON/OFF to ON.</p>	<p>5 Press STANDBY.</p> <p>STANDBY is displayed on the display window.</p>
---	-----------------	--	--	--

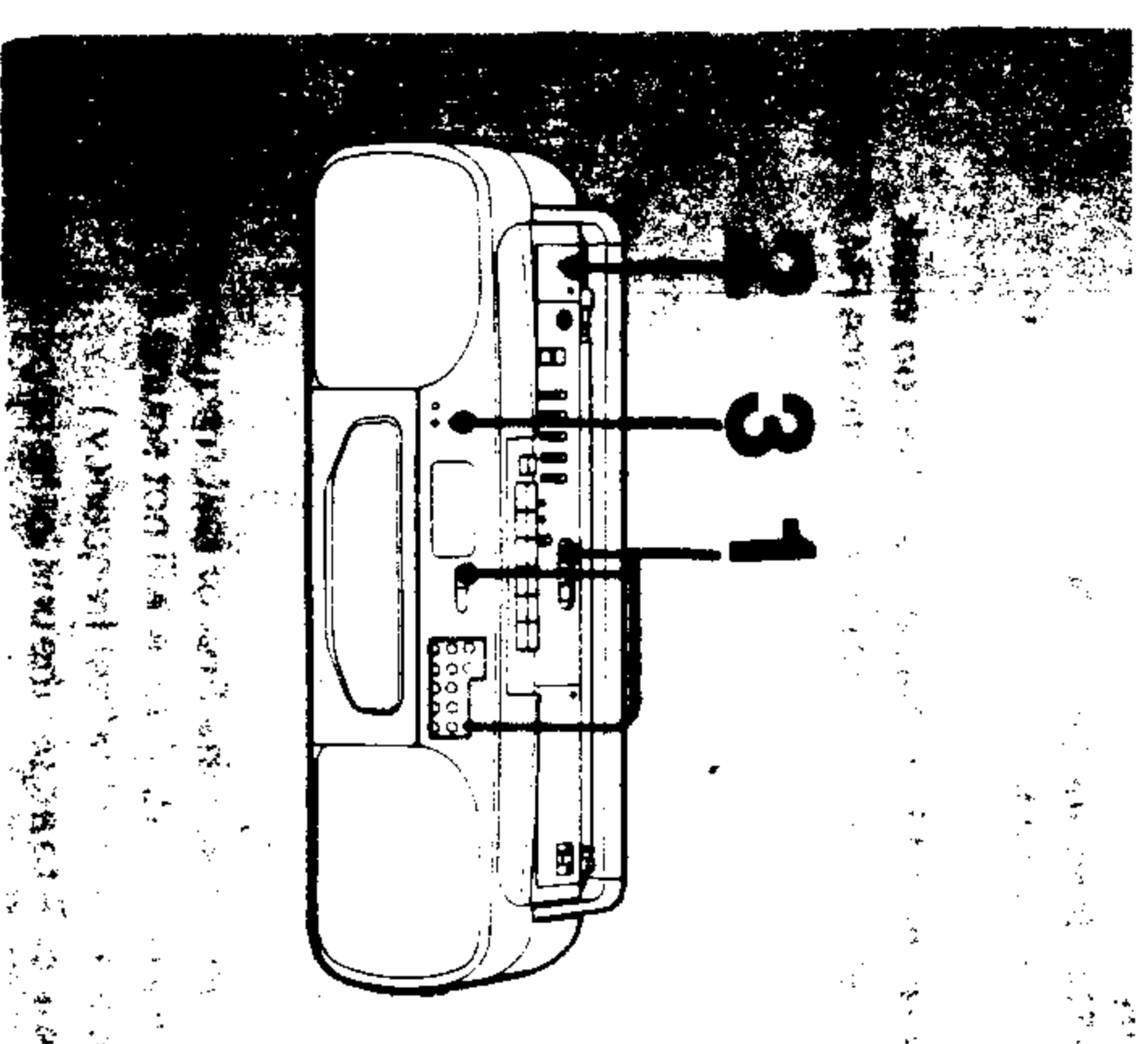
For fast advance
Keep + or - SCAN/TIME SET depressed.

To check the preset time
Press **TIMER/SLEEP**. The preset time will be displayed.

To turn off the radio
Press **STANDBY**. If you do not, radio will continue for 65 minutes.

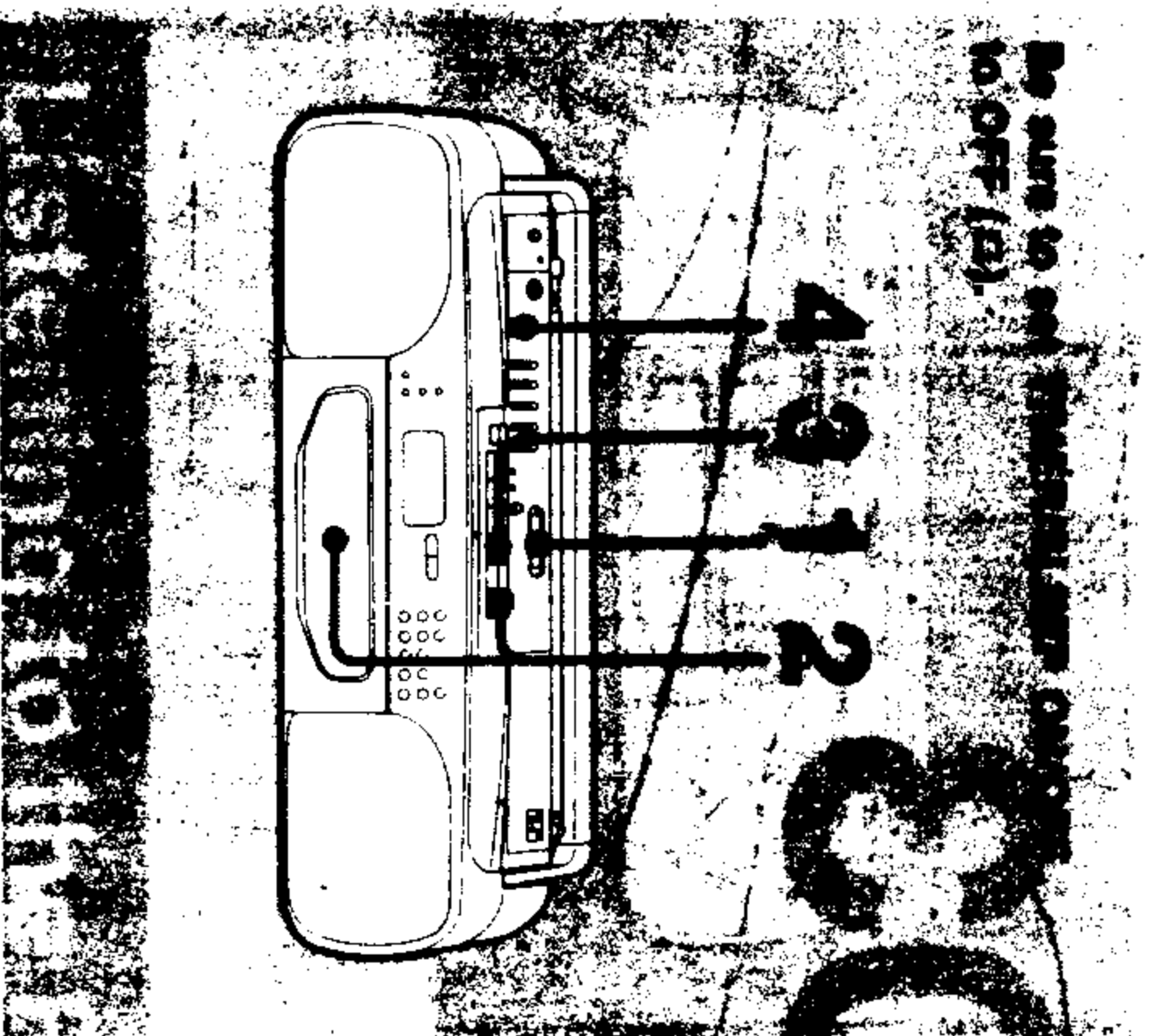
If the timer is preset by mistake.
1 Press **STANDBY**. **STANDBY** indication goes off.
2 Set **TIMER/SLEEP** to OFF.

Go to Sleep to the Radio



<p>1 Tune in a station as described in "Listening to the Radio".</p>	<p>2 Set TIMER/SLEEP ON/OFF to ON (ON). </p>	<p>3 Press SLEEP.</p> <p>SLEEP is displayed. You can listen to the radio for 65 minutes. The power will turn off itself automatically after 65 minutes.</p>	<p>To stop the radio</p>
---	--	--	---------------------------------

Tape playback



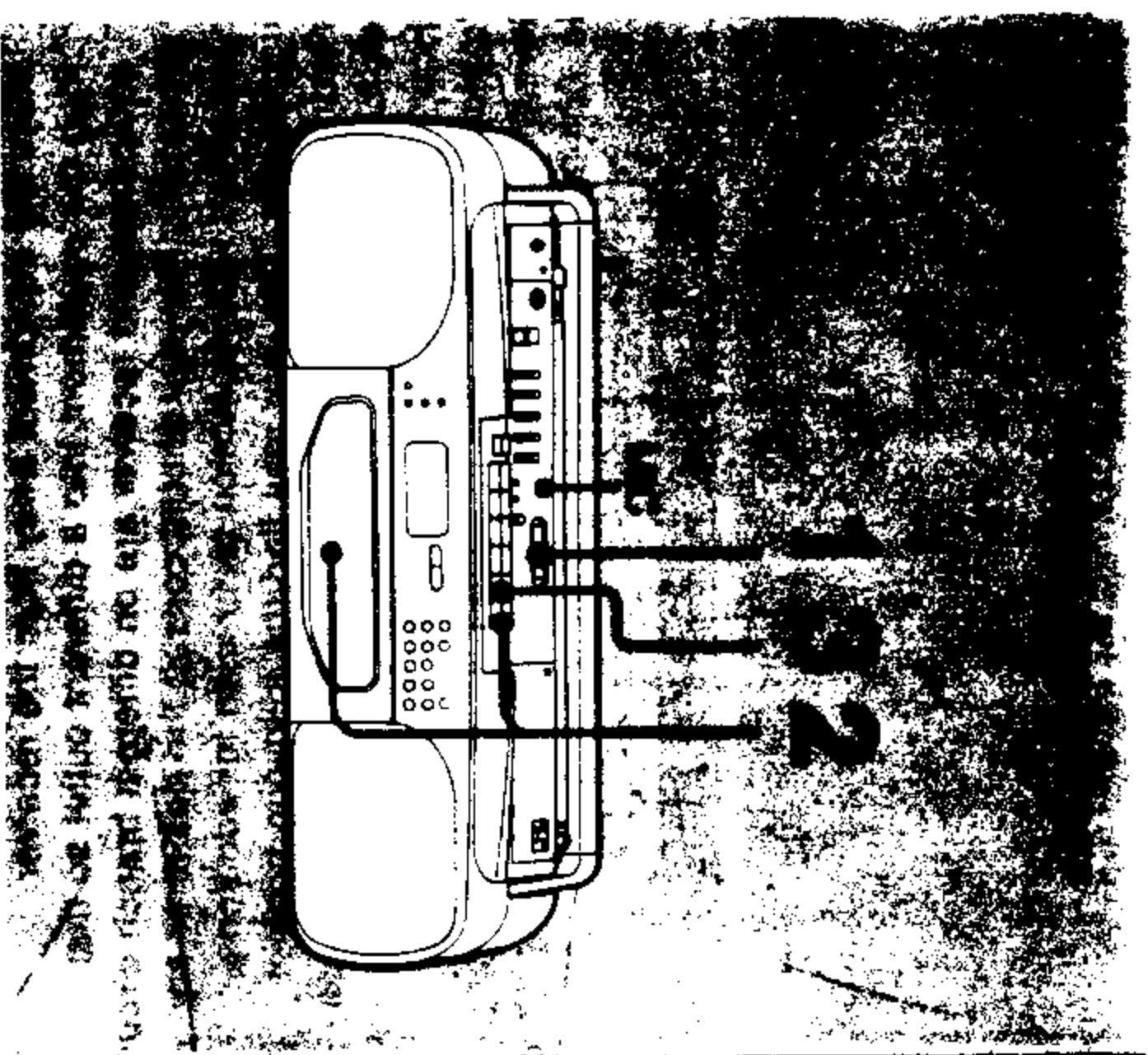
<p>1</p>	<p>2 Insert a cassette.</p>	<p>3</p>	<p>4 Adjust VOLUME.</p>	<p>To stop playback</p>
-----------------	------------------------------------	-----------------	--------------------------------	-------------------------

	Press
To pause	■
To release pause	■ again.
To fast forward the tape	▶▶
To rewind the tape	◀◀

Note
Do not press ◀▶ or ▶▶ during play. (If you do, the unit will enter fast forward mode. To release ◀▶ or ▶▶, press ■.

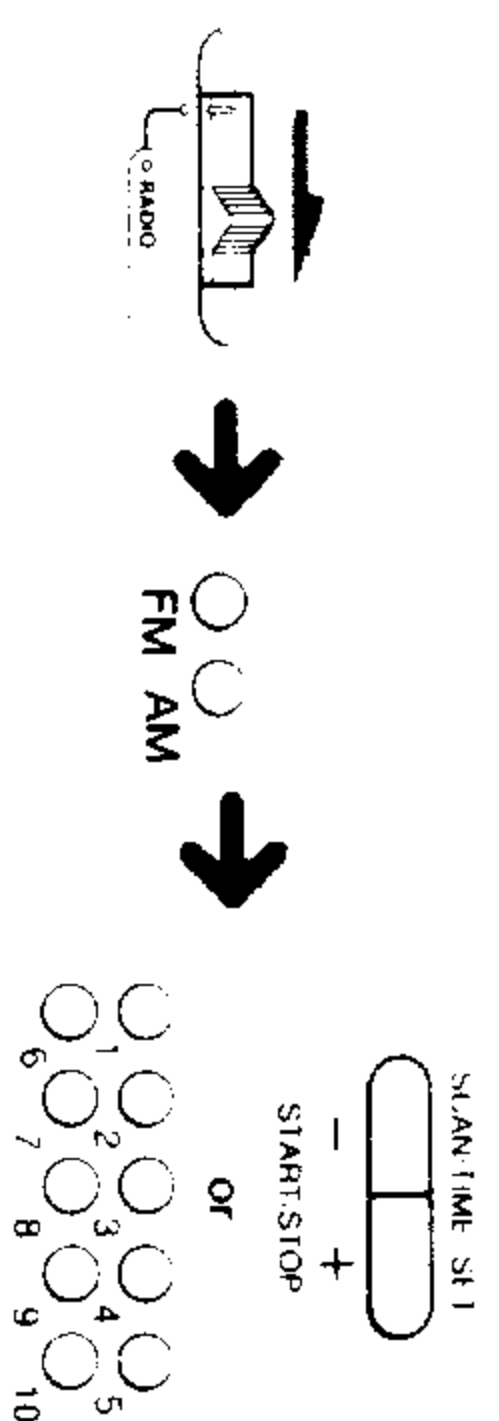
To select playback mode	
To play back both sides of a cassette continuously	DIR (direction) mode selector
To play back both sides of a cassette once	Set to ◀▶ (1). Set to ▶▶ (2).

Auto reverse play
After you press PLAY, press DIRECTION to change tape transport direction. The unit will play the front and back sides of the cassette continuously. FWD or REVERSE lamp lights up to show tape transport direction of the cassette being played back.

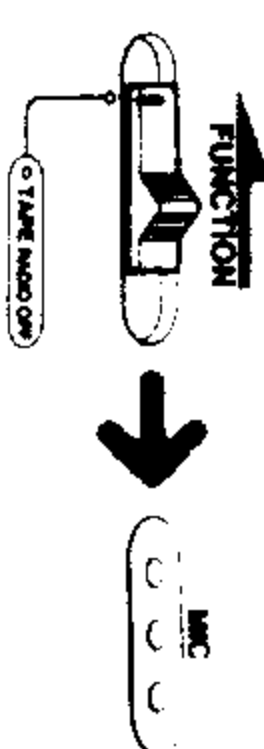


When the tape reaches the end REC is released automatically and playback of the reverse side will start.

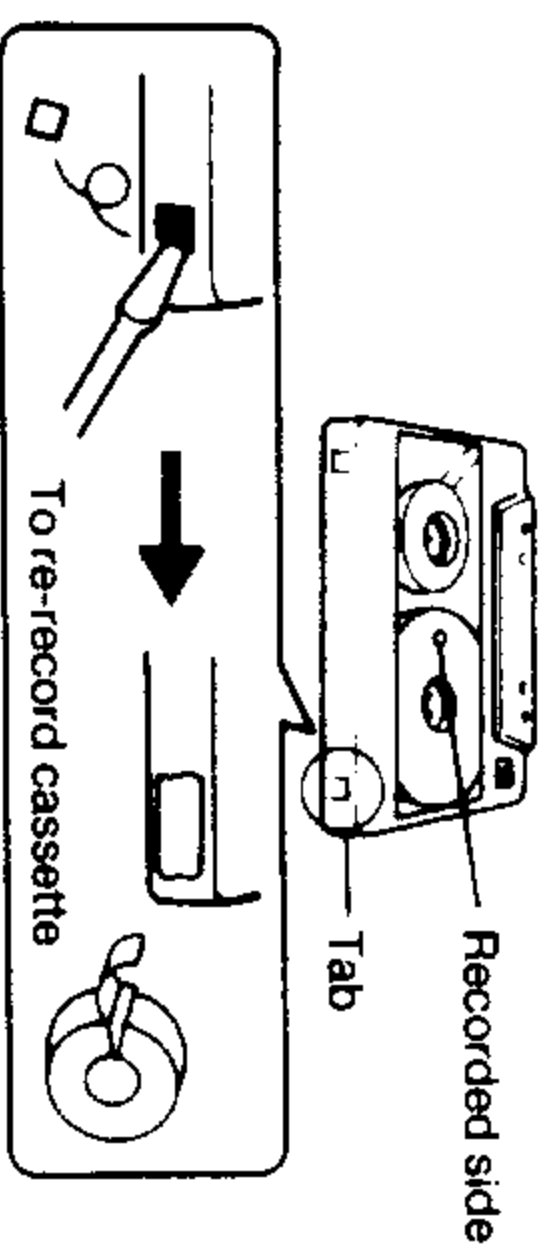
1 From radio
select the desired band and tune in a desired station.



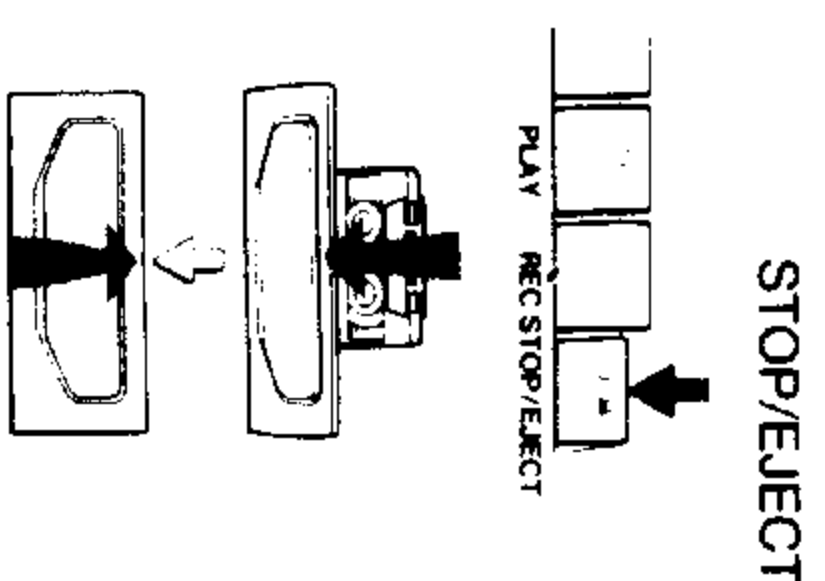
From the built-in microphone



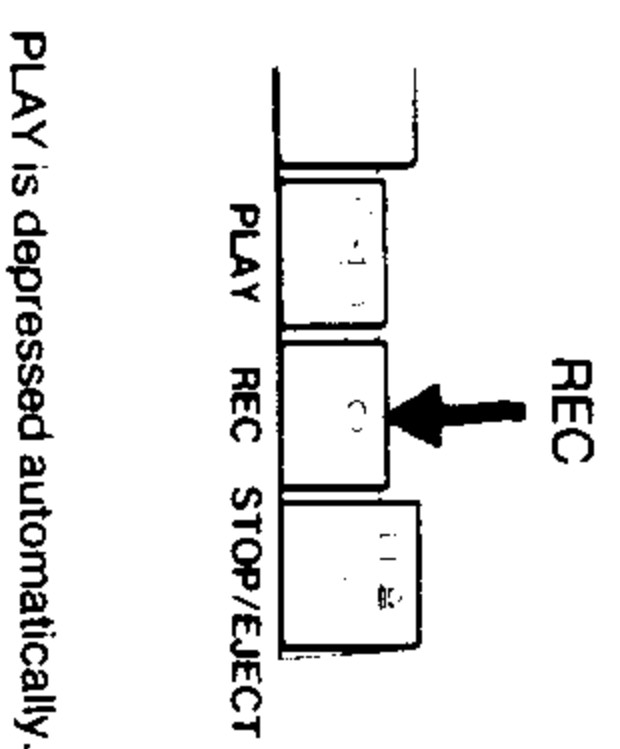
To prevent accidental erasure
Break off tab corresponding to side which has been recorded.
Recording will be protected.



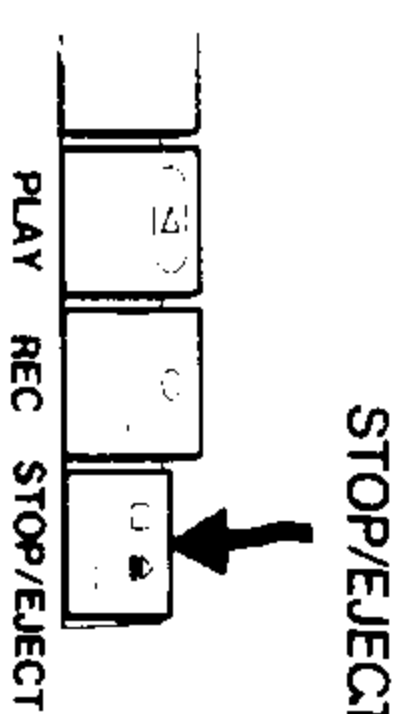
2 Insert a blank cassette.



3



To stop recording



Specification

AUDIO POWER SPECIFICATIONS POWER OUTPUT AND TOTAL HARMONIC DISTORTION.

With 3.2-ohm loads, both channels driven, from 150-10,000 Hz: rated 1.5W per channel minimum RMS power, with no more than 10% total harmonic distortion in AC operation.

OTHER SPECIFICATIONS

Tuner frequency range FM 87.6 - 108MHz
AM 530 - 1710kHz
80 - 8000Hz

Frequency response 4-track 2-channel stereo
Recording system 10cm (4in.) dia. full rang x 2
Speakers Headphones jack (stereo mini-jack) for 16 - 68 ohm
Output impedance headphones
Power output 2.3W + 2.3W (at 10% harmonic distortion in
(model for Canada) DC operation)
Power requirements 120V AC, 60 Hz
9V DC, six size D (R20) batteries
3V DC, two size AA (R6) batteries for clock/tuner
14W

Power consumption
Battery life

Dimensions

Approx. 480 x 147 x 148mm (W/H/D)
(Approx. 19 x 5 7/8 x 5 7/8 inches)
incl. projecting parts and controls

Weight Approx. 3.3kg (7lb 4oz)
incl. batteries

Accessories supplied AC power cord (1)

Design and specifications subject to change without notice.

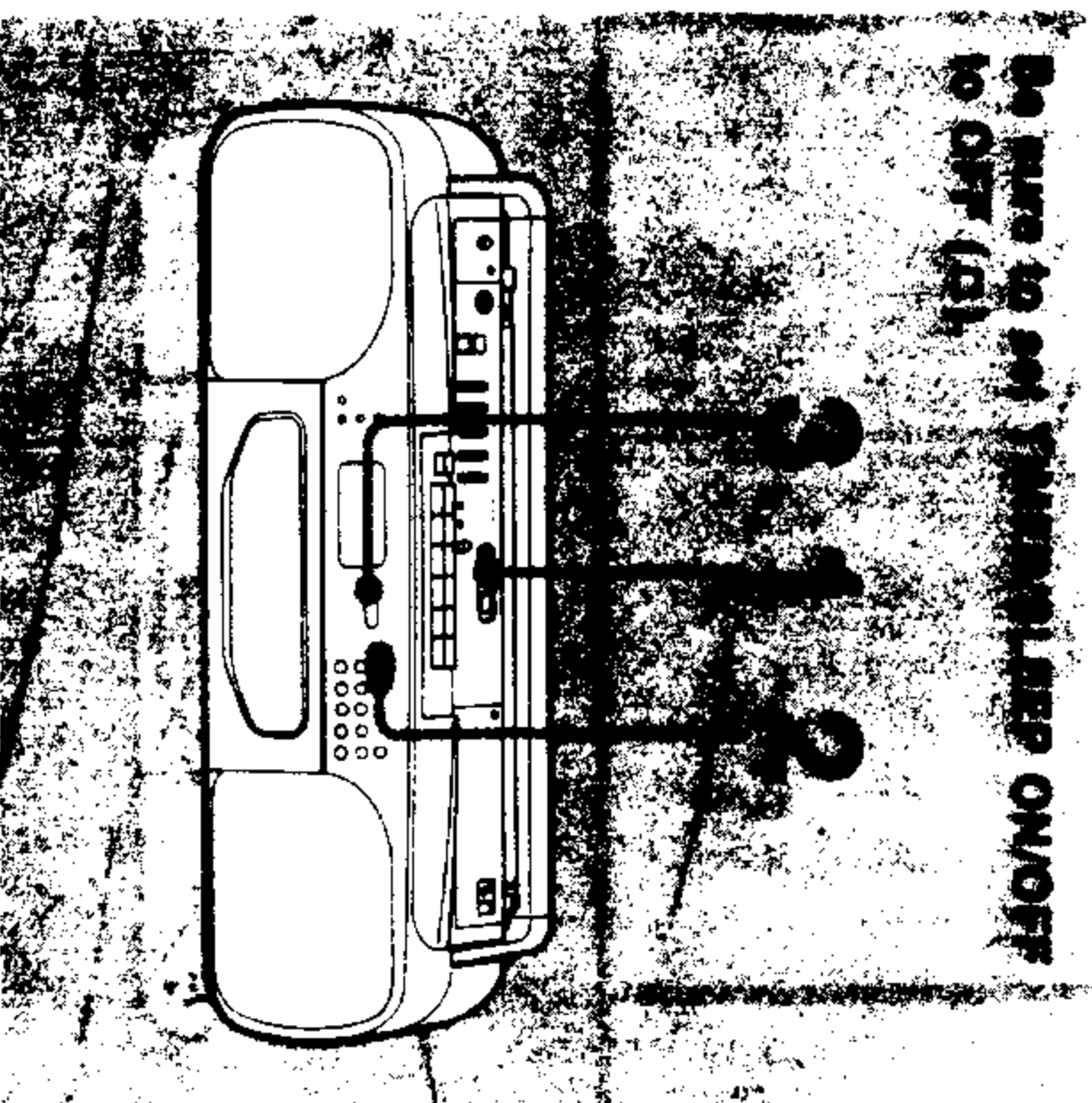
Batteries

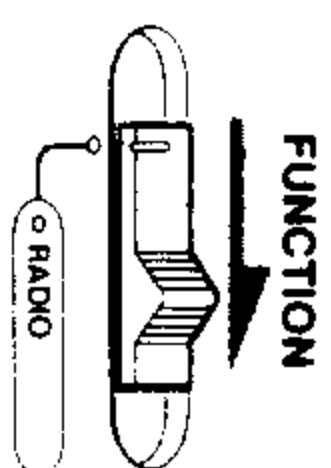
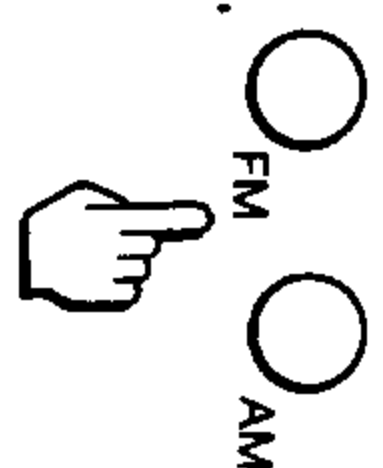
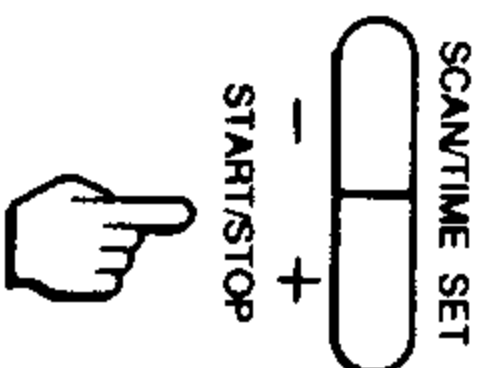
Batteries	FM recording
Sony SUM-1 (NS)	Approx. 10 hours
Sony AM1 alkaline	Approx. 15 hours

1 year for clock/tuner with Sony SUM-3 (NS).

Automatic Tuning

Be sure to set **TIMER/SLEEP ON/OFF** to **OFF (□)**.



<p>1</p>  <p>FUNCTION</p>	<p>2</p> <p>Select the desired band.</p> 	<p>3</p> <p>Hold down + or - of SCAN/TIME SET for several seconds, and then, release.</p>  <p>A tone will sound. The unit will tune in the nearest station in that direction, play for five seconds, then move to the next station in the selected direction. This process will repeat.</p>
---	---	--

When a station you want to listen to is tuned in Press + or - (STOP) of START/STOP within 5 seconds. The unit will remain tuned in that station.

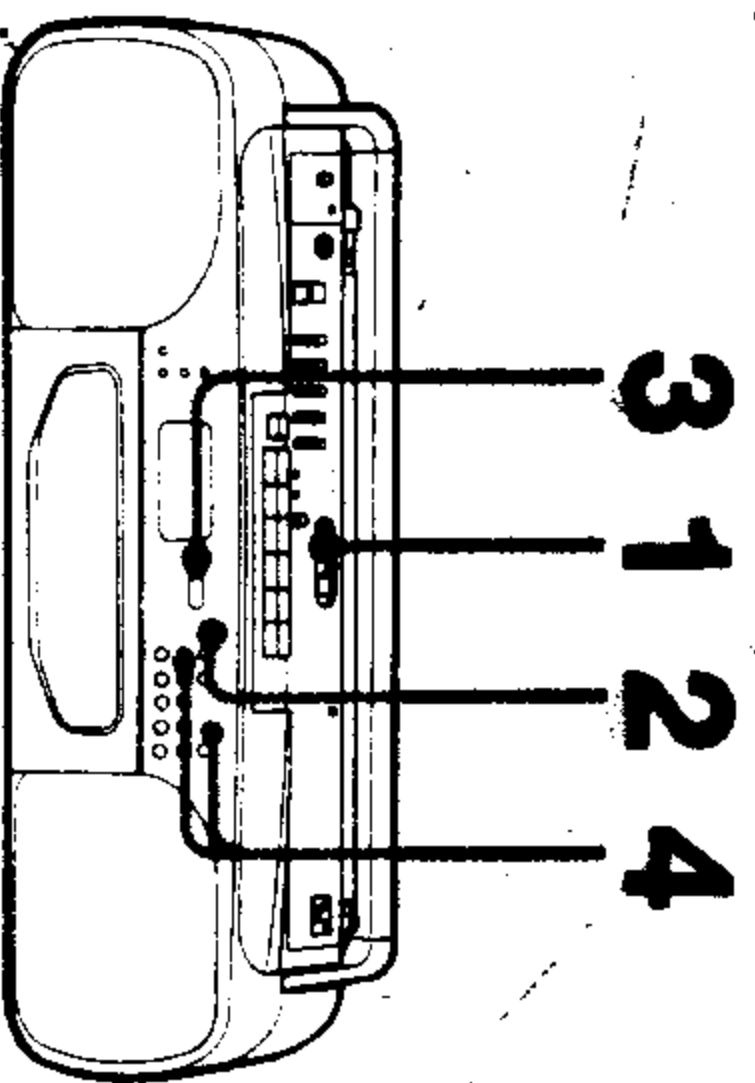
When you reach the first or last frequency in a band A tone will sound. (A tone will not sound if a station is present at the first or last frequency.) Press + or - to adjust the unit in the opposite direction to stop the tone sound.

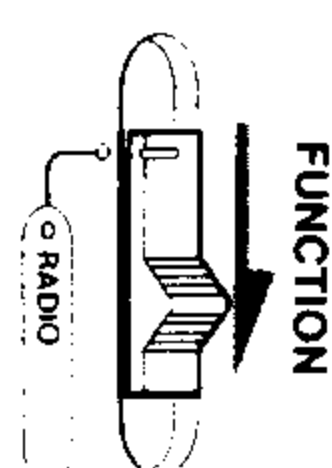
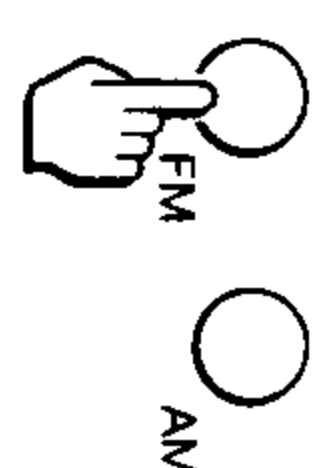
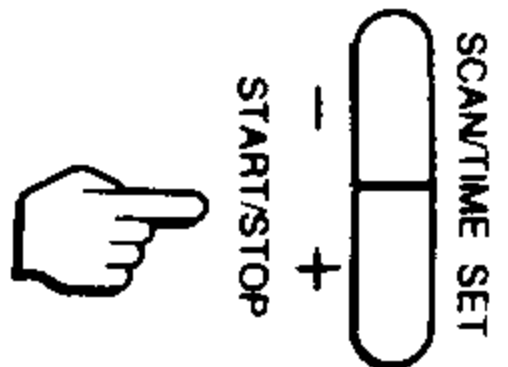
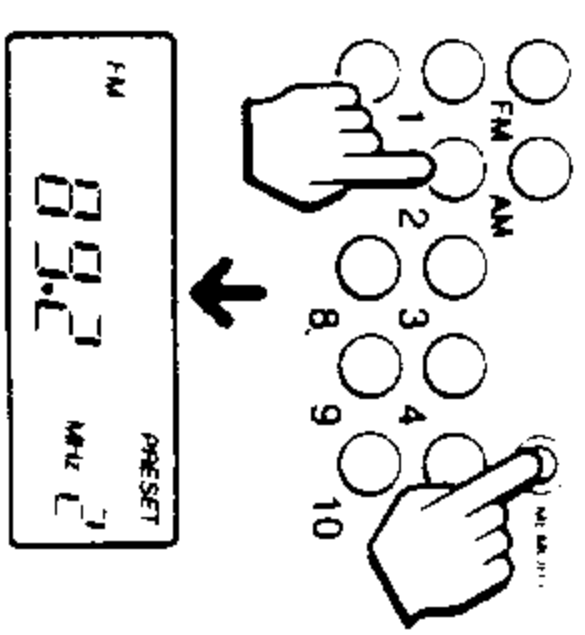
Note on SENS (sensitivity) selector
Normally set to DX.
Set to LOCAL when a strong station signal causes sound distortion or when the automatic tuning function stops frequently because of many broadcast sources. If the scanning still stops without being tuned in, press + (START) or - of START/STOP.

Memory Preset Tuning

To memorize a preset station
Up to 20 stations can be preset. (A station for each FM and AM can be preset on a button.)

Ex. To memorize 89.20MHz FM at preset 2
Be sure to set **TIMER/SLEEP ON/OFF** to **OFF (□)**.



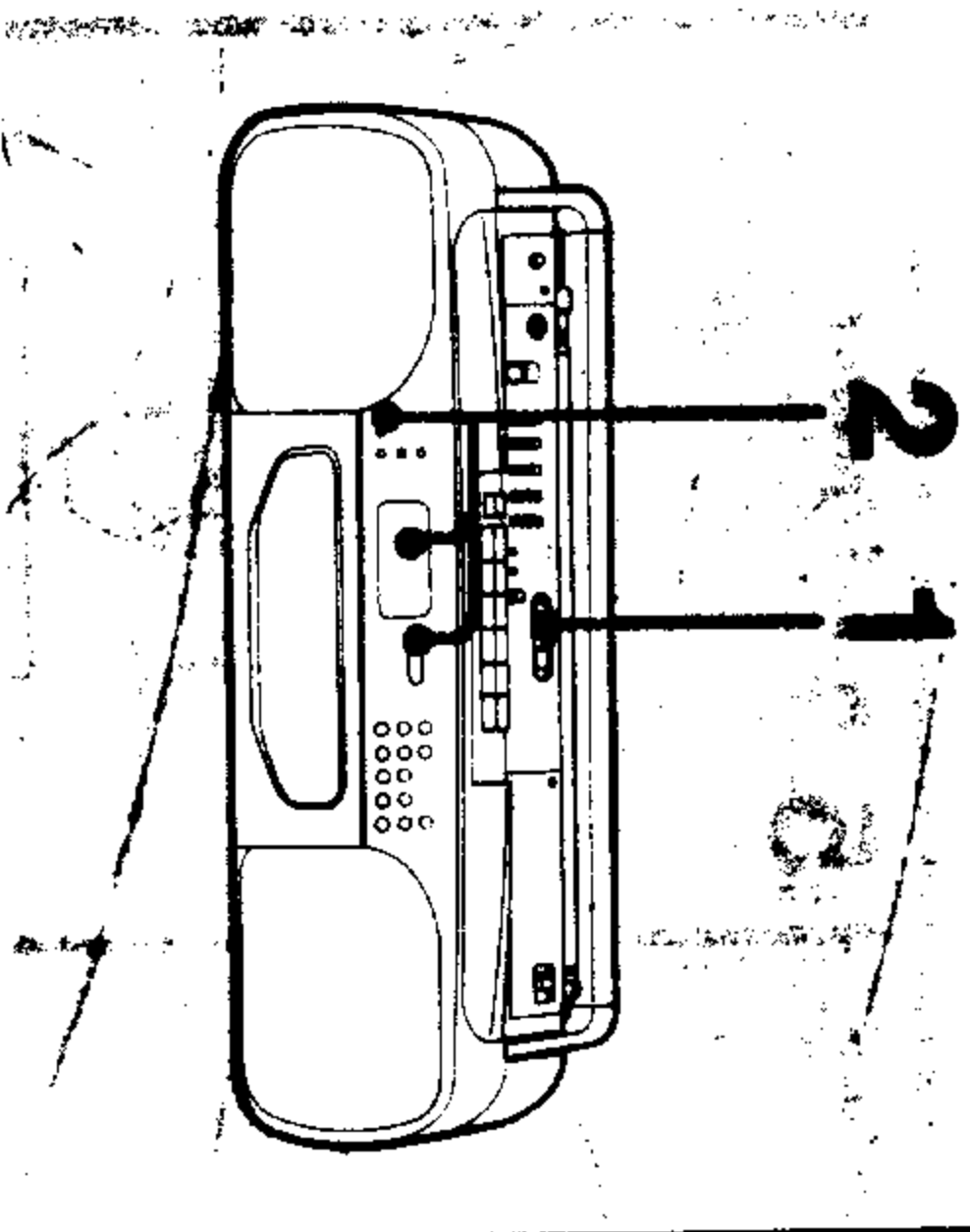
<p>1</p> <p>Set FUNCTION to RADIO.</p> 	<p>2</p> <p>Press FM.</p> 	<p>3</p> <p>Press + or - of SCAN/TIME SET to tune in 89.2MHz.</p> 	<p>4</p> <p>While holding down MEMORY, press 2.</p>  <p>2 will appear on the display window. FM 89.2MHz is now memorized at preset 2</p>
---	---	---	---

To tune in a preset station
In the left example, press FM and then 2. Memorized station FM 89.2MHz will be turned in.

For private listening
Connect stereo headphones to PHONES jack.

Setting the Clock

Two size AA (R6) should be inserted into the battery case



1

2

While keeping **CLOCK** pressed, press + or - of **SCAN/TIME SET**.

Time is displayed on the window.

For faster clock adjustment
Hold down + or - while keeping CLOCK pressed.

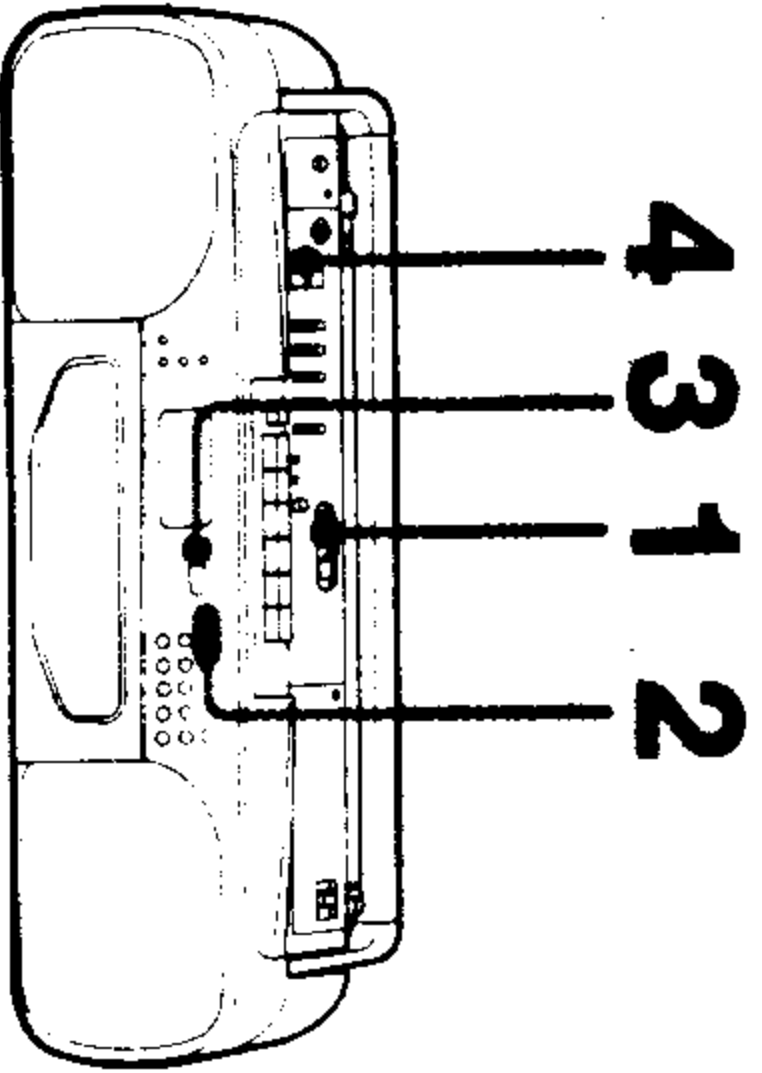
To set seconds exactly
Ex.: To set the clock to 7:00 (00 seconds)
Set the clock to 6:59, then continue to keep CLOCK down. At a signal indicating the exact hour (eg. a radio broadcast or telephone "time" service), press + once. The clock will be set to exactly 7:00.

Time indication
AM12:00 = midnight
PM12:00 = noon

Listening to the Radio

Manual Tuning

Be sure to set **TIMER/SLEEP ON/OFF** to OFF (□).



1

2

Select the desired band.

3

Tune in a desired station.

4

Adjust **VOLUME**.

To turn off the radio

To eliminate noise when broadcast source is nearby
Set SENS (sensitivity) to LOCAL.
(Generally, set it to DX.)

If the received FM stereo signal is too weak
The reception becomes monaural, and the FM STEREO indicator will go out.

Troubleshooting Guide

<p>The unit does not operate.</p>	<ul style="list-style-type: none"> • The AC power cord is not connected (on AC operation). • No batteries in the battery compartment. • Incorrect polarity of batteries.
<p>Cassette cannot be inserted.</p>	<ul style="list-style-type: none"> • Improper tape insertion. (Insert with exposed tape side up.) • ▲ is depressed. • ■ is engaged. Press ■ again.
<p>Tape does not play when ▲ pressed.</p> <p>● cannot be depressed.</p>	<ul style="list-style-type: none"> • No cassette in holder. • The cassette inserted has tab removed. If so, cover with plastic tape. • ◀▶ or ▶▶ has been depressed.
<p>No sound from speakers.</p>	<ul style="list-style-type: none"> • Headphones are plugged in. • The VOLUME control is turned down completely.
<p>Timer does not operate correctly.</p>	<ul style="list-style-type: none"> • The clock is not correctly set. • Timer setting is not correct. • Weak batteries. (See "Power Sources".) • Set the TIMER/SLEEP ON/OFF switch correctly.

Poor playback, recording or erase quality
 Dirty heads. Clean the illustrated portions with a cotton swab moistened with cleaning fluid or denatured alcohol.

