

PANASONIC®

**8-TRACK STEREO
CARTRIDGE
TAPE DECK**

OPERATING INSTRUCTIONS

MODEL RS-803US



Before operating the unit read these instructions completely



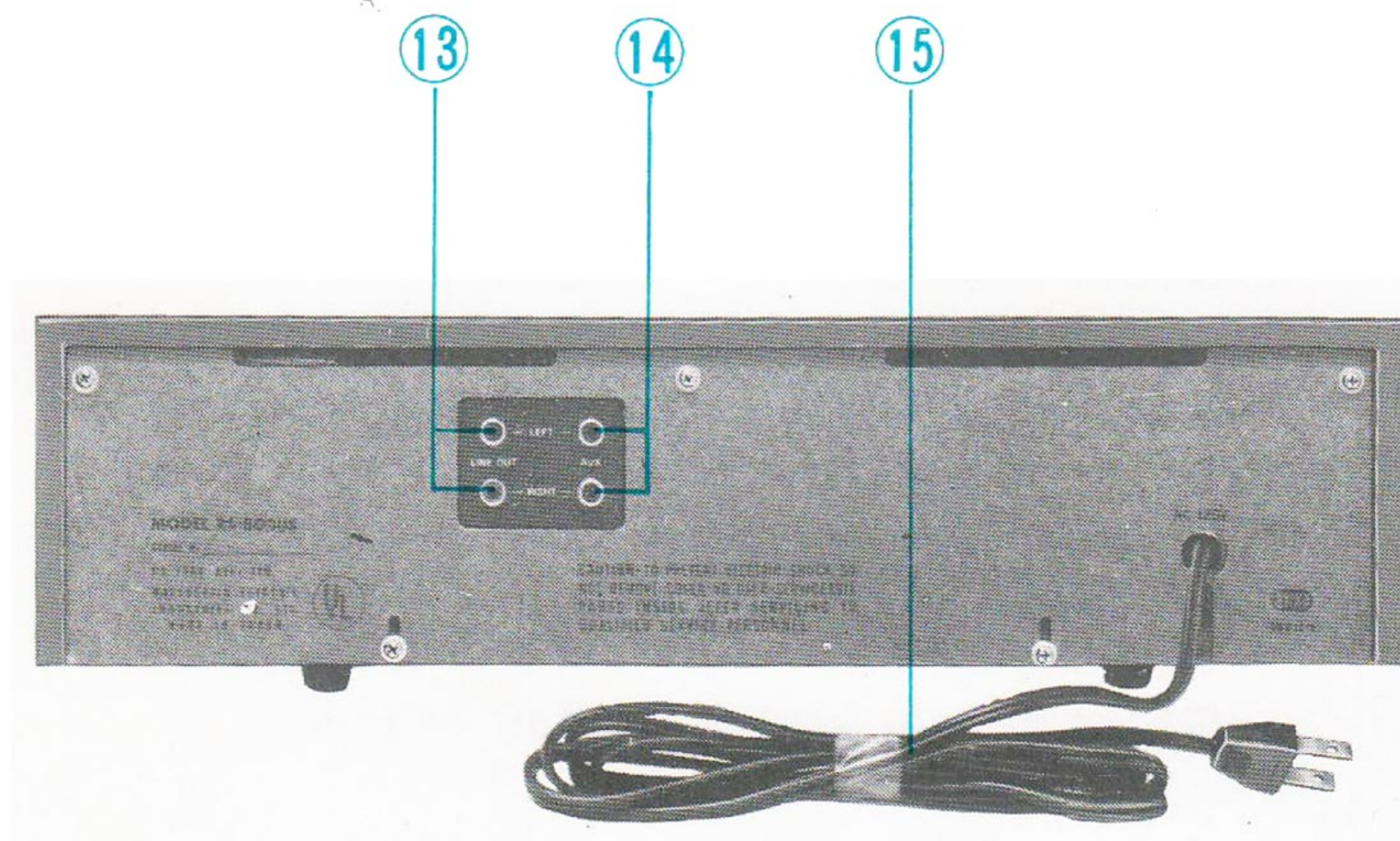
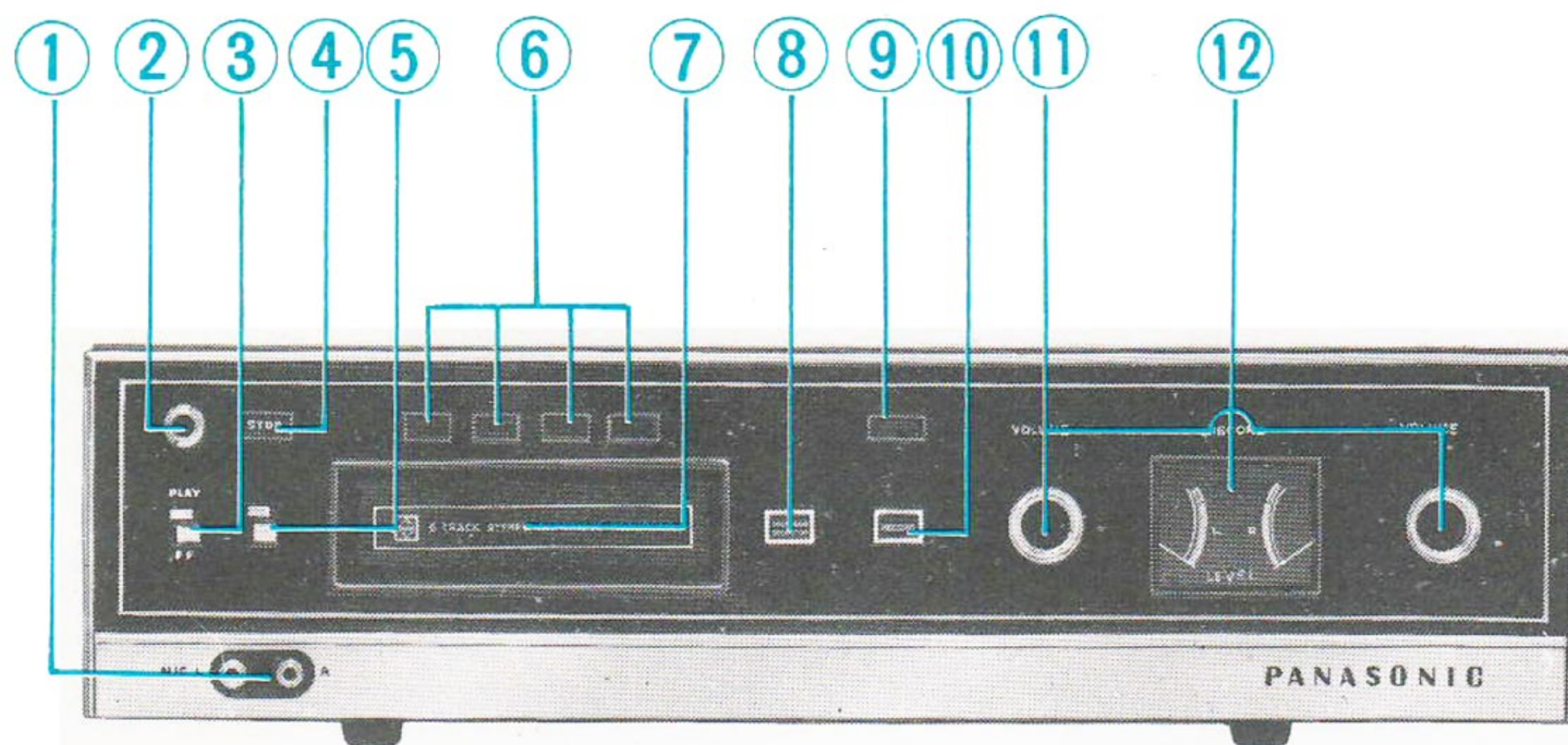
You have purchased a quality tape recorder that is guaranteed to provide long years of entertainment. Model RS-803US has been produced by Matsushita Electric, whose fine technology has created a great number of electric and electrical home appliances.

All parts of this superb tape recorder, from the tiniest component to the motor, are produced under strict quality control. Just a few minutes of your time spent carefully reading through this instruction book will assure your obtaining optimum performance that will bring you continued enjoyment for many years.

FEATURES OF RS-803US

1. A stereo tape deck which permits both recording and playback on 8-track cartridge tape.
2. Automatic program change operation assures long listening pleasure.
3. Includes fast forward mechanism to permit quick and convenient selection of desired performance for playback.
4. Unique Auto-Stop device permits selection of either continuous non-stop operation or operation of programs 1 to 4 only, as desired.
5. Desired program can be easily selected by the automatic program change push button.
6. During recording, tape movement automatically stops at the end of program 4 and automatic stop indicator illuminates to prevent accidental double recording on program 1.
7. Automatic stop indicator functions in both recording and playback, at the end of programs 1-through-4, illuminating for extra convenience.
8. Record button can be locked in position for easy adjustment of recording level before recording.
9. Includes headphone jack for private listening pleasure without disturbing others.
10. Includes large level meters.

CONTROLS & THEIR FUNCTIONS



1. Microphone jacks (MIC)

For connection of microphones of $200\Omega \sim 500\Omega$. (For connection of other than microphones, see page 5.)

Input impedance $5.6K\Omega$ (2 circuits)

Standard input level $-75dB$ (0.18 mV)

2. Headphone jack (H. PHONE)

For connection of stereo headphones (8Ω). Ideal for private listening pleasure during playback, and for monitoring the recorded sound during recording. The recording and playback volume levels are pre-set to the ideal level for stereo headphone use.

3. Fast forward control (FF)

To move the tape rapidly forward during playback, move the control to the FF position. When the control is released, the unit will automatically be ready for PLAY operation, and playback will begin.

Recorded sounds cannot be heard during fast forward operation.

Note: Fast forwarding cannot be performed during recording.

4. Auto-stop indicator (STOP)

This lamp illuminates when, during recording, program 4 has been completely recorded.

If, during playback, the automatic stop switch is set to the AUTO STOP position, the tape movement will automatically stop at the end of playback of program 4, and this lamp will illuminate.

5. Automatic stop switch

CONTINUOUS PLAY...For continuous tape performance during playback.

AUTO STOP To stop the tape automatically after program 4 finishes. Auto-stop indicator will illuminate to signal that program 4 has finished.

* This control functions during playback only. It can be set to either of the above positions during recording, and tape will automatically stop after program 4 has recorded.

6. Program indicator

This lamp illuminates to indicate the number of the program being recorded or played back.

7. Tape slot

When the cartridge is inserted into this tape slot, the power source is activated and the performance will begin.

8. Program selector button (PROGRAM SELECTOR)

Press this button to change the program at any desired point during playback. The program advances one number for each time the button is pushed.

9. Recording indicator

When the record button is depressed, this lamp illuminates to indicate that recording can be performed.

10. Record button (RECORD)

When this button is pressed and locked, the power source will be activated. At this time, the recording input level can be adjusted.

Note: If the cartridge is inserted into the tape slot with the button not held down, the button will return to its original position and the tape will move in the playback, not recording, mode.

11. Recording level adjustment knobs (VOLUME)

Used to adjust the recording level during recording. Because the output level during playback is constant, make volume adjustments, if desired, by using the volume control of the amplifier to which connected.

12. Level meter (LEVEL)

Indicates the recording input level during recording and the line output level during playback.

13. Line output jacks (LINE-OUTPUT)

Jack for connection with an amplifier or stereo system. (For connection method, see page 5.)

Output impedance 330 Ω (2 circuits)

Output level -6dB (0.5V)

14. Auxiliary input jacks (AUX IN)

The connection jacks for recording from a radio, TV, FM tuner or stereo system. (For connection method, see page 5.)

Input impedance 100K Ω (2 circuits)

Standard input level -27dB (45mV)

15. Power cord

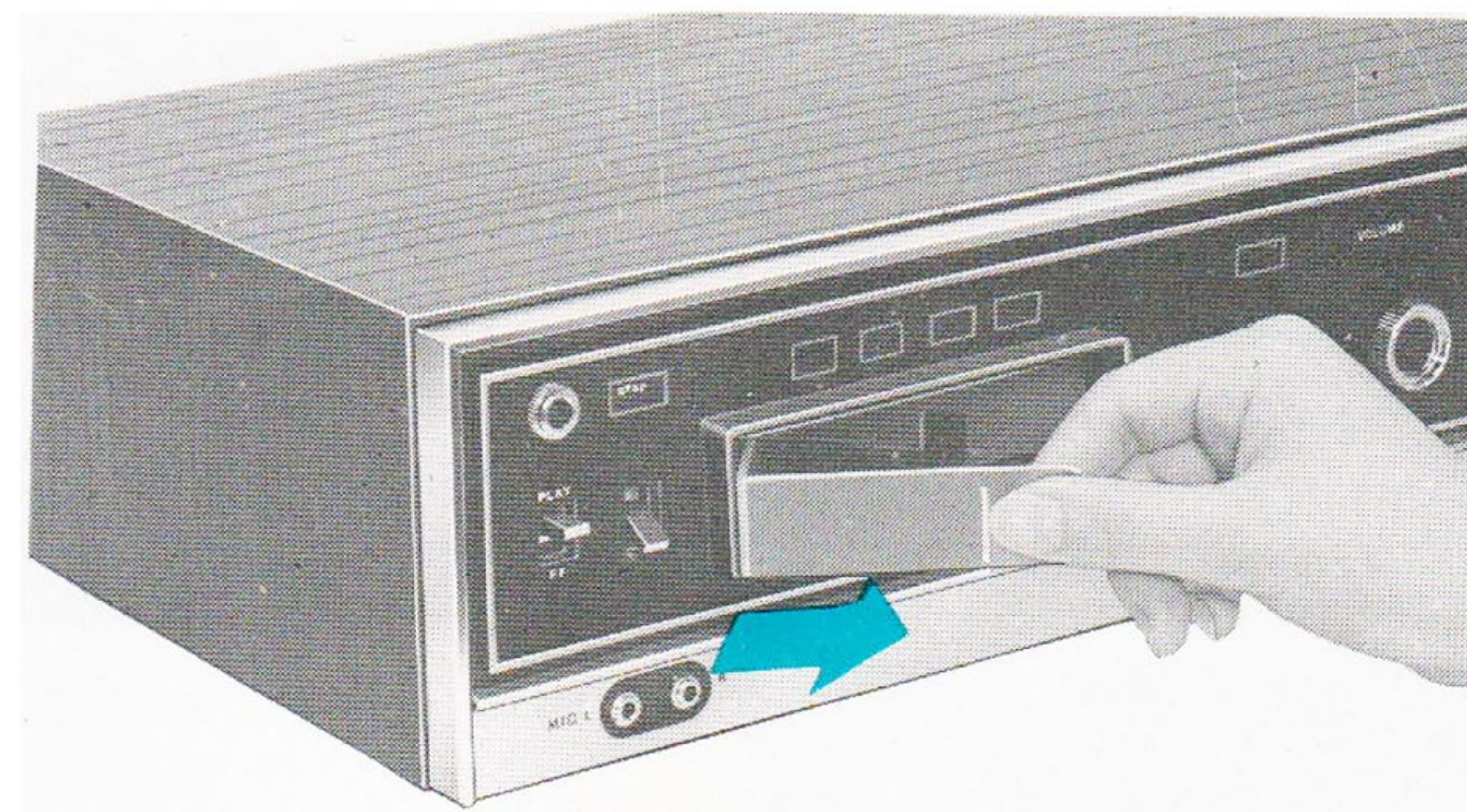
SOME HELPFUL HINTS

1. Completely remove the cartridge after finishing using the unit.
2. Avoid using this unit where the temperature is high (105°F. or higher), in damp or dusty locations, or where it will be exposed to direct sunlight.
3. Store cartridges, new and recorded, in a place which is free from excessively high temperature and humidity and away from direct sunlight. Don't place recorded cartridges near any magnetic appliance such as a radio, TV set, etc.

BEFORE USE

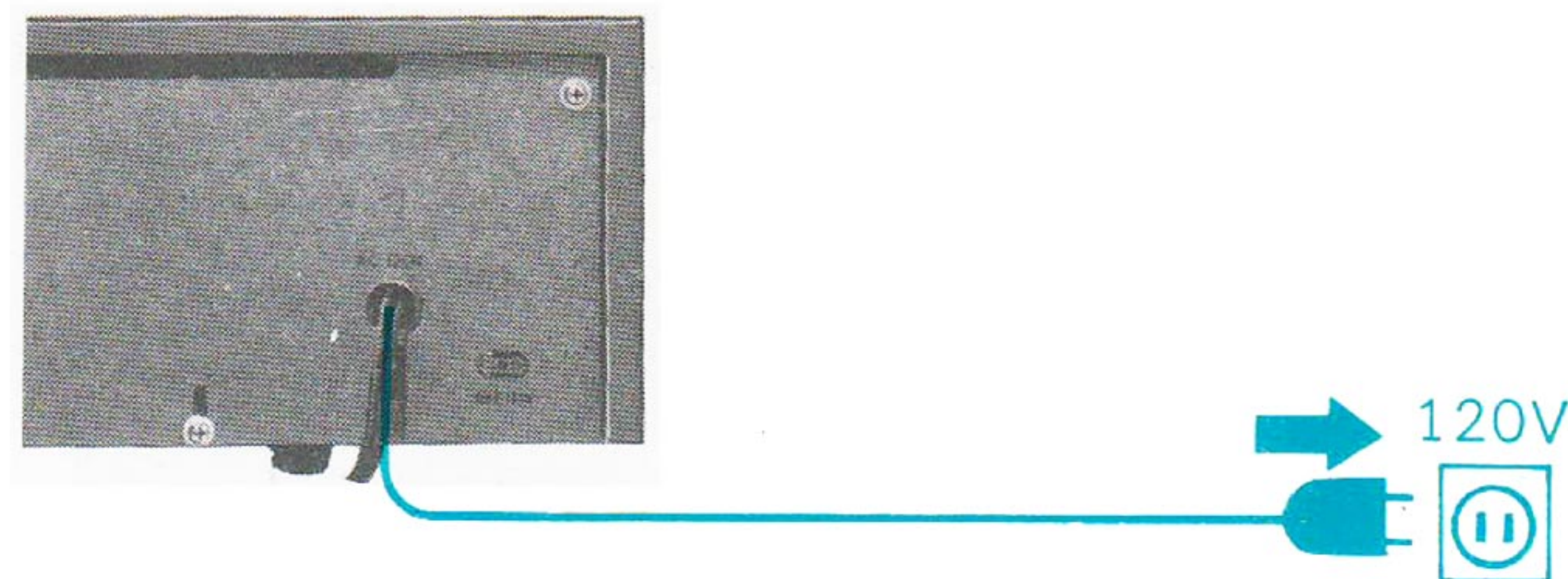
Before Playback

Remove the head protection plate from the tape slot.



To Activate the Power Source

Connect the power cord with an AC 120V electrical outlet. This unit is not provided with a power switch. The power source is activated by inserting the cartridge (for playback) and by pressing the record button (for recording).



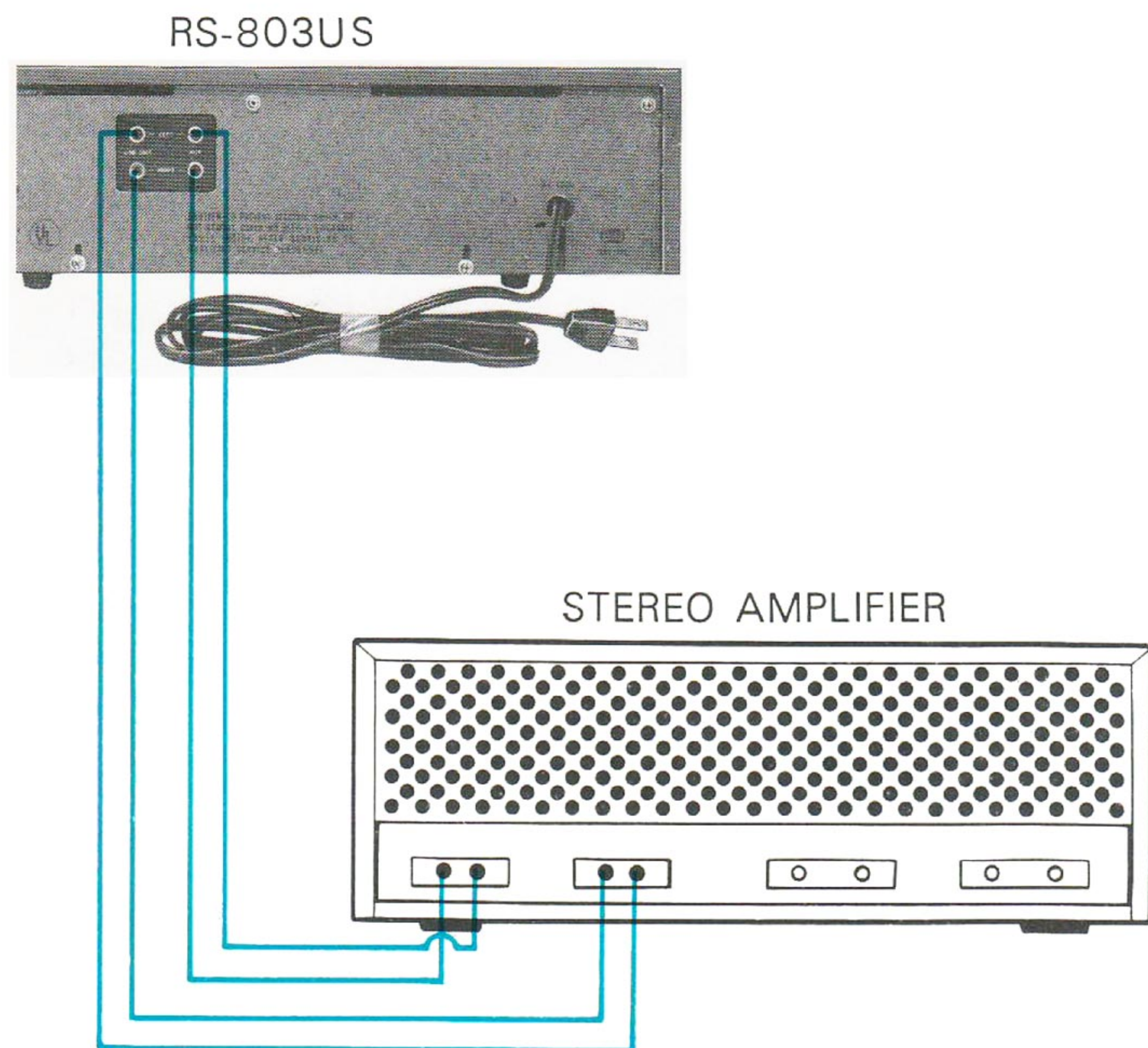
CONNECTIONS

Because this unit does not include a power amplifier, it must be connected to the amplifier of a stereo system for playback operation.

Using 4 connection cords C (included) :

For playback...Connect the line output jacks (LINE OUT) of this unit with the auxiliary input jacks (AUX) of the amplifier or stereo system.

For recording...Connect the auxiliary input jacks of this unit with the line output jacks of the amplifier or stereo system.



Connections with other than a stereo amplifier

■ Recording from microphones

Connect the microphones with the microphone jacks. Microphones connected with this unit should have an impedance of $200\Omega \sim 500\Omega$ and output power of $-80\text{dB} \sim -70\text{dB}$.

■ Recording from radio or television

If the radio or TV has a magnetic earphone terminal (8Ω), connect it with the microphone jack of this unit by using RP-8020 radio cord M (optional).

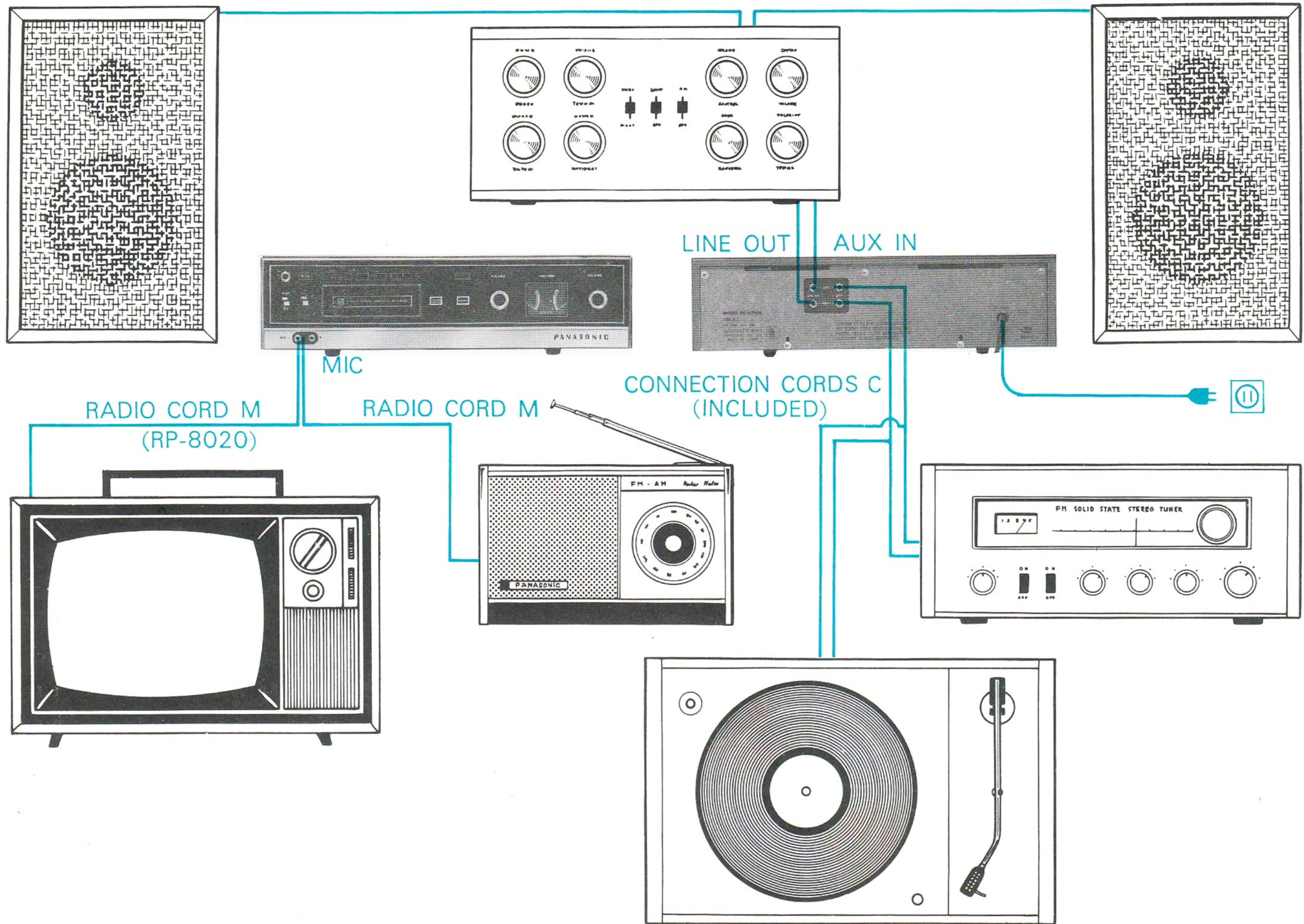
■ Recording from an FM tuner

Connect with the auxiliary input jacks of this unit (AUX IN) by using connection cords C (included).

■ Recording from a record player

Note: Record player must have a ceramic pickup, not a magnetic pickup.

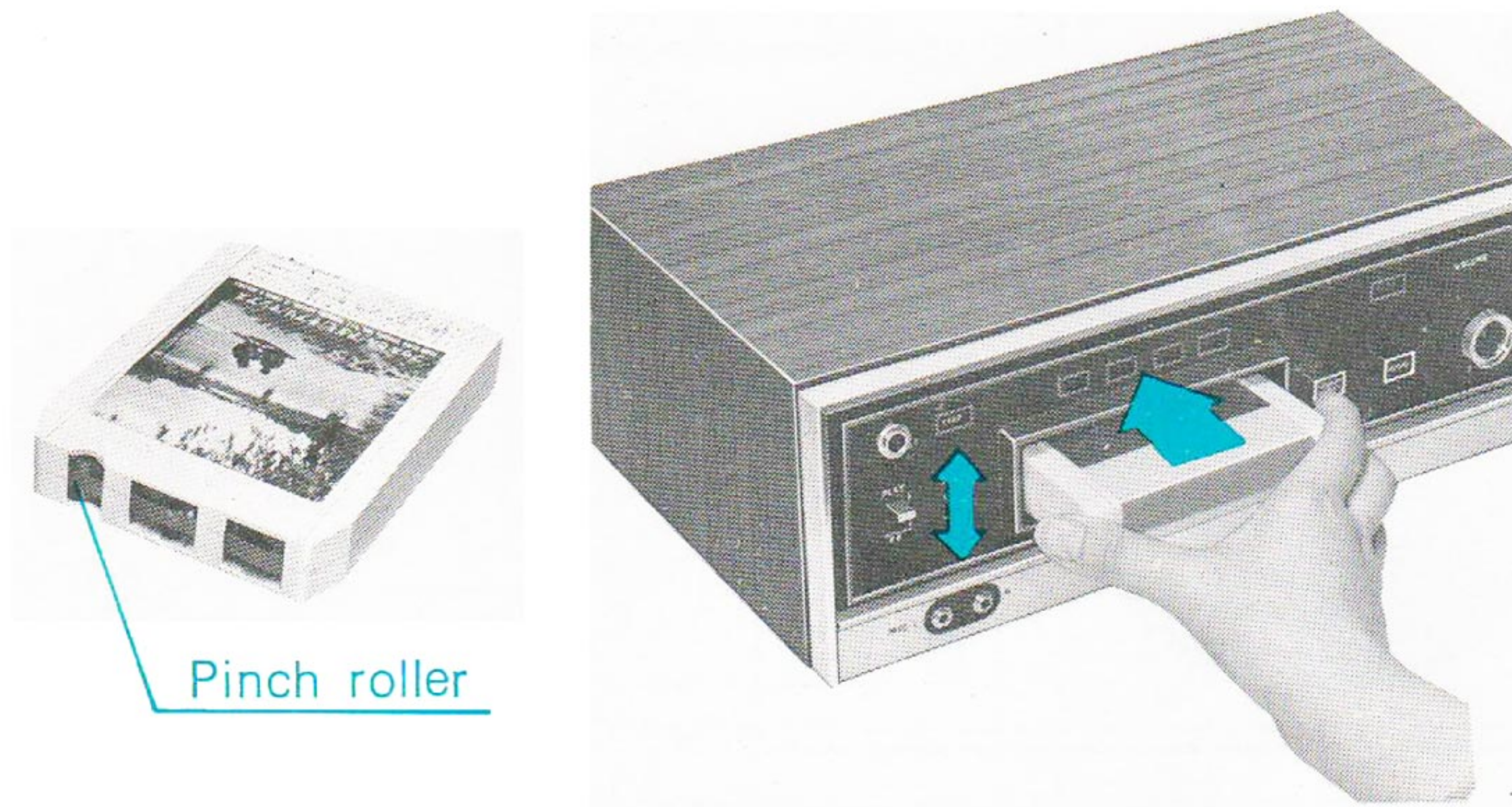
Connect the auxiliary jacks (AUX IN) of this unit with the record player by using connection cords C (included).



PLAYBACK INSTRUCTIONS

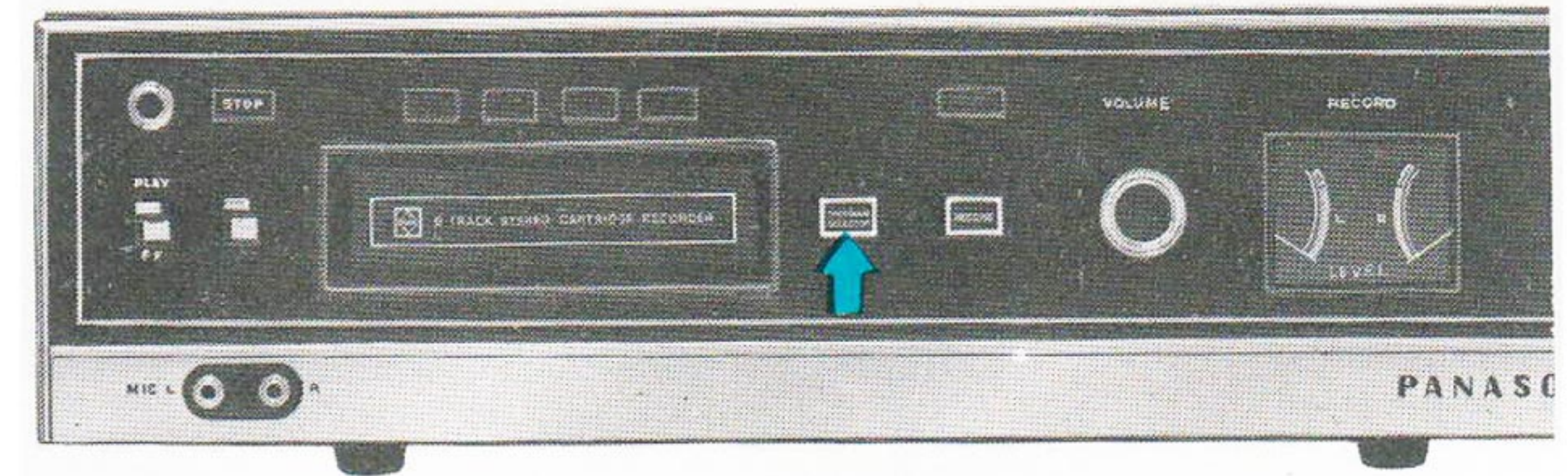
1. With the end of the cartridge where tape is exposed to the forward, and the pinch roller on the right, insert the cartridge into the tape slot.
 2. The program indicator will then illuminate and playback will begin. Adjust the volume and the tone quality of the stereo system or amplifier to the desired level.
- ★ 8-track cartridge tape is endless. When playback of programs 1 through 4 has finished, the performance will begin again from program 1.
 - ★ If the automatic stop switch is pre-set to the CONTINUOUS PLAY position, programs 1 through 4 will repeat continuously over and over again. If the automatic stop switch is pre-set to the AUTO STOP position, tape movement will automatically stop after program 4 has completely finished, and the automatic stop indicator will illuminate.

Note: When this unit is not being used, be sure to remove the cartridge from the tape slot to turn the power off.



How to Use the Program Selector

By pressing the program selector, the program can be changed as desired. Each time the program selector is pressed the program changes one time, as follows: 1 → 2 → 3 → 4 → 1 → 2 → 3.....



RECORDING INSTRUCTIONS

Recording Instructions

1. Select the point from which the recording is to begin if not already in correct position.
Push the program selector until program 4 is indicated. Then set the automatic stop switch to the AUTO STOP position. Set the FF switch to the FF position to forward the tape rapidly. When the tape reaches the beginning of program 1, it will stop automatically. Begin recording at that time.

Note: If program 1 has already been recorded and, for instance, the recording is to begin from the middle of program 3, follow the above procedure to arrive at the beginning of program 1. Then press the program selector twice to obtain program 3.

Then listen to the tape until the point (from which recording is to begin) is reached.

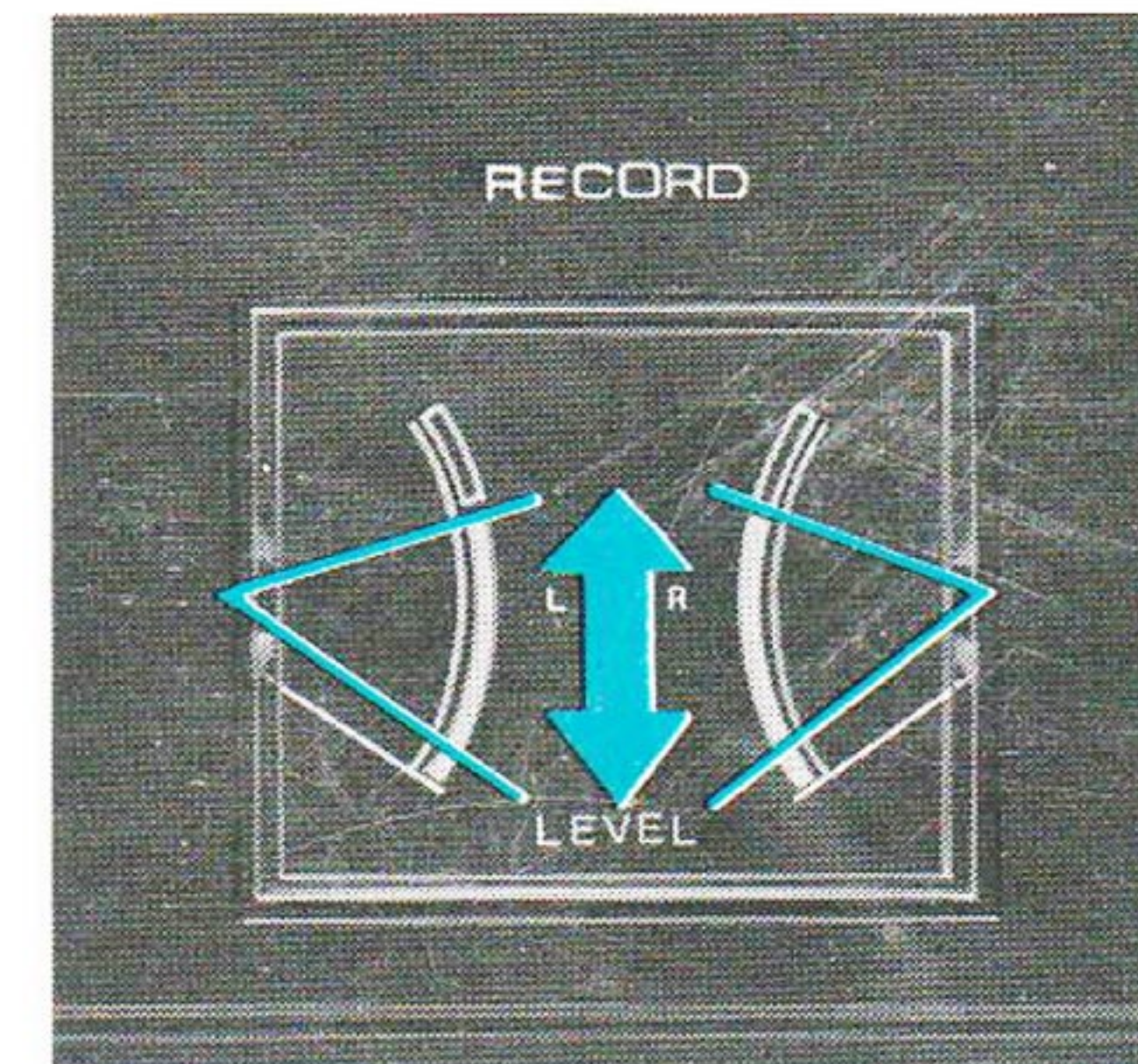
2. Referring to the connection instructing on page 5, make the necessary connections from the sound source from which the recording is to be made.

3. Push and lock the record button. The recording indicator will then illuminate to indicate that recordings can be made. Adjust the recording input level with the recording level adjustment control.

Adjust the level so that the level meter's needle remains within the range shown by the arrow in the figure even when the recording sound is at maximum intensity.

4. When the adjustment of recording input level is finished, insert the cartridge into the tape slot while pressing the record button. The recording will then begin.

5. Programs 1, 2, 3 and 4 will then be recorded in that order. When recording of program 4 has finished, the automatic stop indicator lamp will illuminate and the tape will automatically stop. There is, therefore, no worry of accidental double recording on program 1.



Note: If the record button is depressed when the tape cartridge is inserted into the tape slot, the unit will record on the tape and existing recordings, if any, will be erased. Be careful, therefore, not to press the record button except when recordings are desired.

ERASING

When new recordings are made, all existing recordings are automatically erased and only the new recording remains. To erase recordings completely, without making a new recording, set the recording input level control to the minimum position and operate the unit in the same manner as for recording. Note that if previous recordings are not completely erased, portions may remain between parts of the next recording.

MONITORING

Monitoring is the term to designate listening to material being recorded while it is actually being recorded.

This permits checking that the recording is being made exactly as it should be. To listen connect headphones to the headphone jack. Stereo headphones (8Ω) can be used for this purpose.



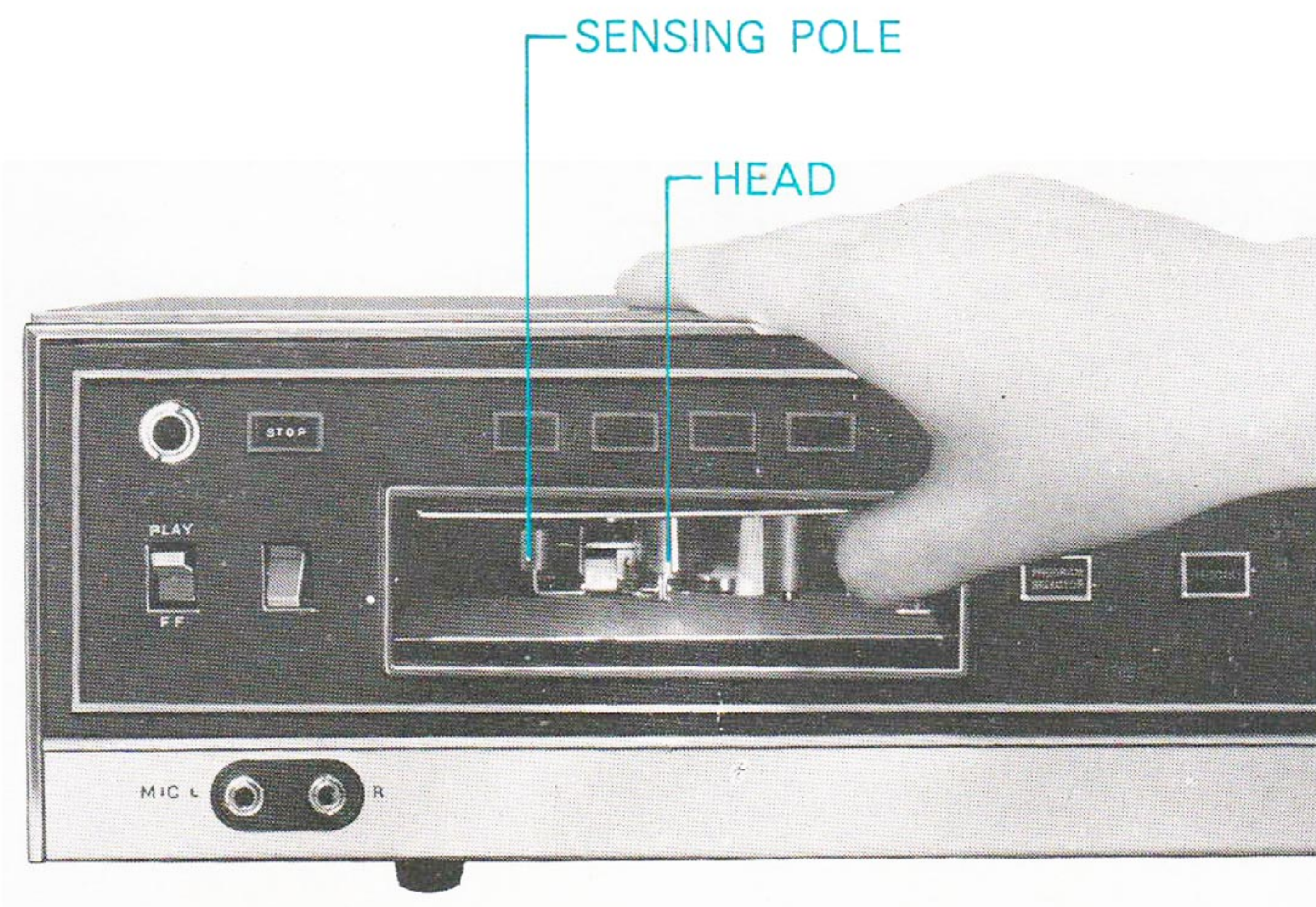
MAINTENANCE

Because the head in the tape slot is in constant contact with the tape, dust and residue from the tape easily adhere to the head. The head should, therefore, be cleaned after every 100 hours of use. Clean by it gently wiping the head surface with the head cleaning tool included. Or use a cotton swab moistened slightly with alcohol.

Note: 1. The head assembly of this unit is very delicate.

Do not subject it to strong shock or vibration.

2. Do not allow iron or steel objects, such as a screwdriver or magnet, to contact or come near to the head in the tape slot.



RS-803US SPECIFICATIONS

Power source: AC 120V 60 Hz
Power consumption: About 30W
Transistors: 2SB348(2), 2SB346(4), 2SA101(2),
2SB324(1), 2SB175(1), 2SD205(1)
Diodes: OA90(2) SW05-01(2) 1S990(1)
Rectifiers: KC2dp²²/1 (2), FR2P(1)
Recording system: AC Bias 35 kHz
Erasing system: AC Erase
Recording track system: 8-track 2-channel stereo
Tape speed: 3¾ ips
Frequency response: 50~12,000 Hz
Input: MIC: 5.6KΩ —75db (2 circuits)
(MICROPHONE 390Ω)
AUX IN: 100KΩ —27db (2 circuits)
Output: LINE OUT: 330Ω —6db (2 circuits)
HEADPHONE: 8Ω 45mV
Dimensions: 16⅝" × 9¼" × 4½"
Weight: 12⅛ lbs.

These specifications are subject to change in order to accommodate improvements in design.

ACCESSORIES

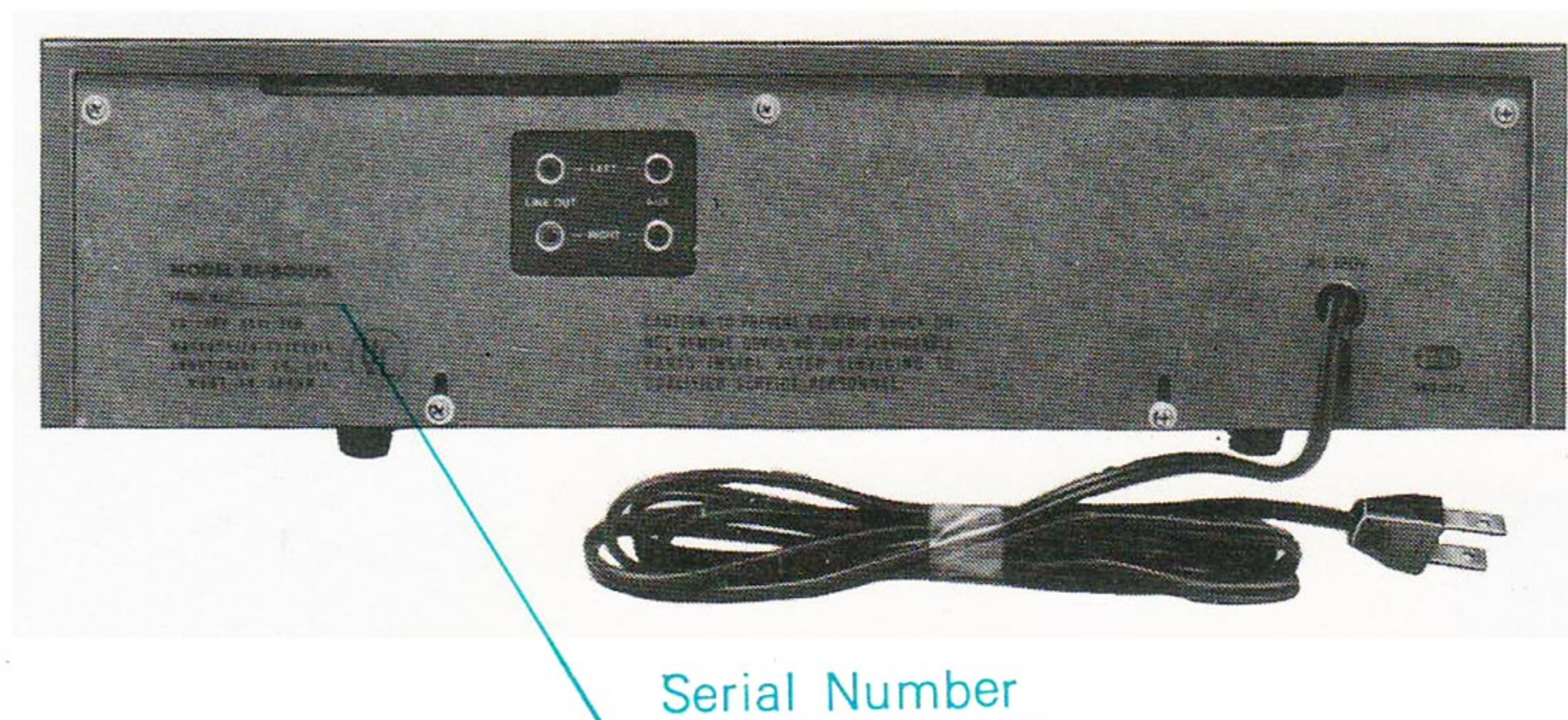
Connnection cords C 4
Head cleaner.....1

WARRANTY

Your PANASONIC WARRANTY covers ONE YEAR PARTS, except appearance items, and 90 DAYS' LABOR at an authorized PANASONIC Servicenter only, subject to the terms of the Warranty.

PRODUCT SERVICE

Should your PANASONIC product ever require service, refer to the Directory of Authorized Servicenters, or your franchised PANASONIC dealer, for guidance.





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