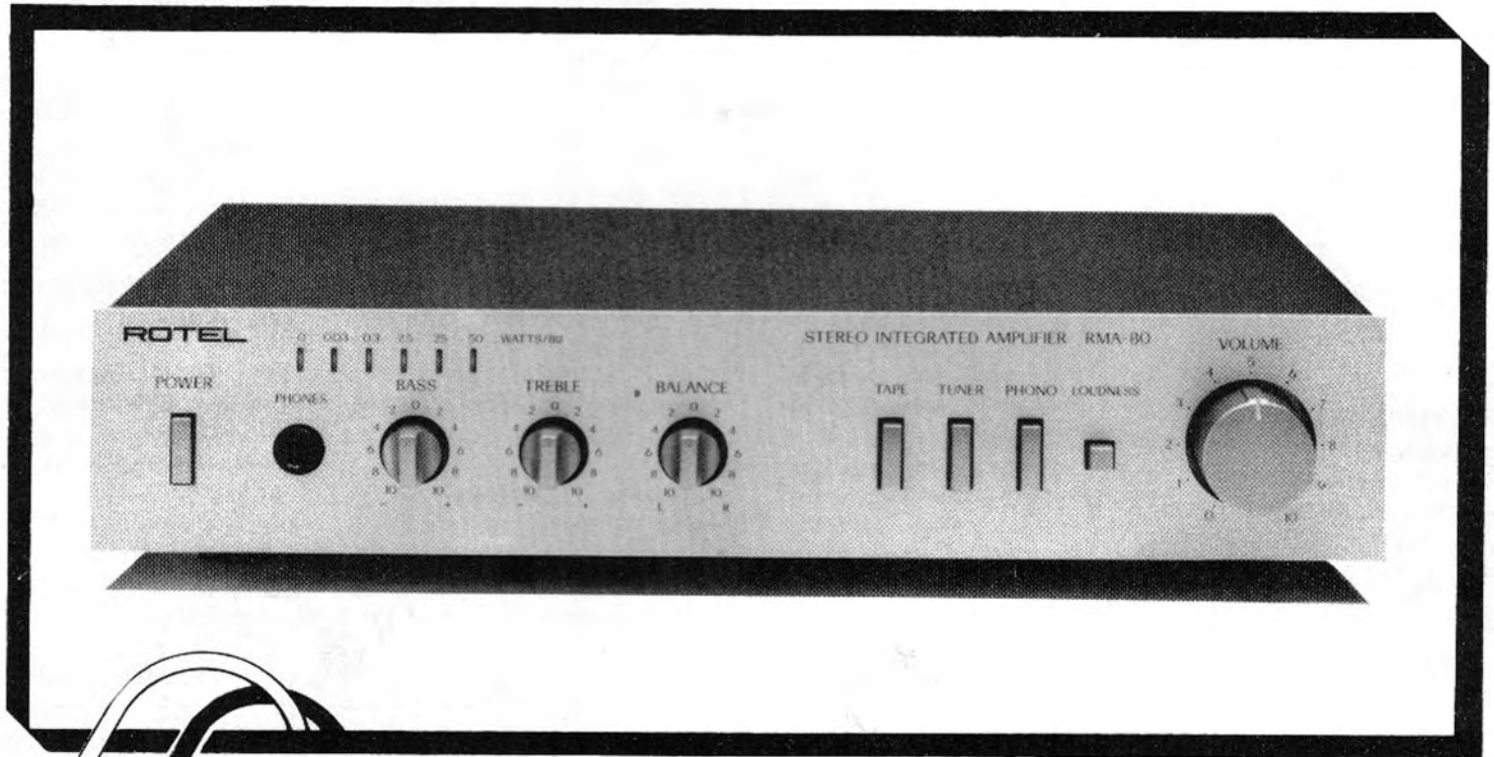


OWNER'S MANUAL

Quality. Uncompromised.

ROTEL®



MICRO COMPONENT 80 SYSTEM
STEREO INTEGRATED AMPLIFIER

RMA-80

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE



Write your SERIAL NUMBER here.
The number is located near the name plate on the unit's rear panel.

THE ROTEL CO., LTD.

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INTRODUCTION

We at Rotel want to thank you for purchasing our audio product.

Rotel audio products are designed to use the latest electronic technology, and they incorporate our long experience as a specialist manufacturer of audio equipment. We are confident that you will find satisfaction in the high quality sound and top performance, and that you will find pleasure in the functional beauty achieved through human-engineering concept. Before starting operation, please read this instruction manual thoroughly and acquaint yourself with the proper mode of using the unit and all its connections.

We hope you will enjoy top-notch performance for many years to come.

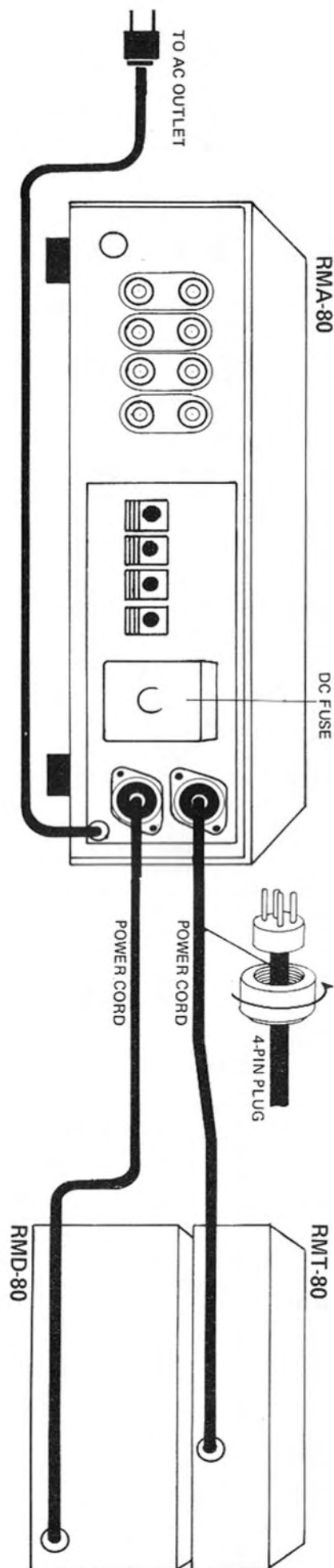
PRECAUTIONS AND POWER SUPPLY

For maximum safety carefully follow the instructions below:

1. Power Supply

In the Micro Component 80 System, the power supply section of the integrated amplifier RMA-80 feeds the necessary power to the AM/FM tuner RMT-80 and the cassette deck RMD-80.

- To supply power to the amplifier RMA-80, connect the AC power cord of the unit into a household wall outlet. Do not attempt to plug the cord into an outlet for power equipment, a convenience outlet on other audio component, or any other outlet of different rating. To prevent possible shock noise or damage to the speakers, always be sure to connect or disconnect the AC power cord only after turning



off the power switch on the unit.

- The RMT-80 and RMD-80 can be powered only through the power supply connectors on the rear panel of the RMA-80. Insert the 4-pin plugs extending from the rear panel of the RMT-80 and RMD-80 all the way into the power supply connectors of the RMA-80, thus insuring a perfect connection. Never attempt to insert the 4-pin plugs into a wall outlet or other power source that may damage the units. Also, do not attempt to insert any other plug into the power supply connector of RMA-80.

2. Installation

The unit must be placed in a level, flat and well-ventilated location free from humidity, vibrations, dust, and high temperatures and not exposed to direct sunlight. Improper placement conditions may have undesirable effects to the units.

3. Do not open the cabinet

To avoid possible electric shock or damage to the component, never open the cabinet. If some object falls inside the cabinet by mistake, turn off the power, disconnect the wall plug, and consult a qualified electrician or your dealer.

4. Turn the volume control to minimum

An excess of current in the lower frequency range may cause damage to the speakers when lowering the tonearm of your turntable onto a record. Set the volume control of RMA-80 to minimum before lowering the stylus onto a record. Always keep the volume at minimum whenever the power switch is turned on.

5. When moving the components

When transporting the units, remove the AC plug from the wall outlet and disconnect all cords on the rear panel to prevent wire breakage and short circuit.

6. If the unit gets wet or foreign matter enters

Should water or any foreign matter enter the cabinet, immediately disconnect the AC cord, and consult your dealer or a qualified electrician.

7. Retain the owner's manual

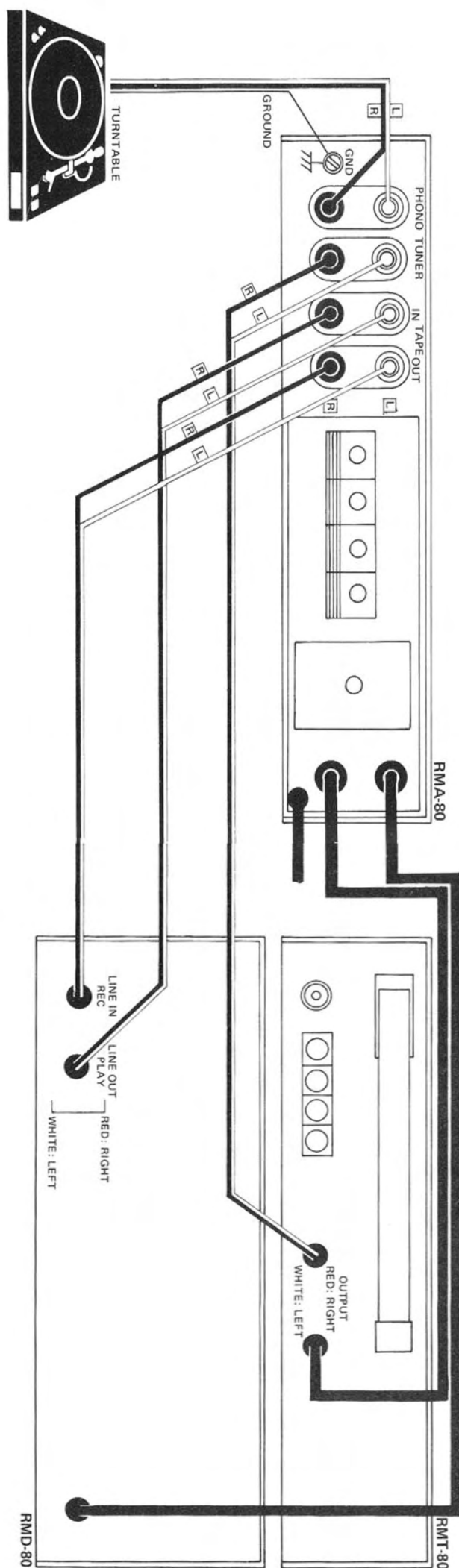
Keep the owner's manual near the component, and write down the serial number (found on the rear panel) on the cover.

CONNECTING MICRO COMPONENT 80 SYSTEM

Make connections as directed by the illustration.

1. Turntable

Connect the RCA pin cords extending from your turntable to the PHONO terminals on the rear panel of RMA-80, correctly matching L and R terminals of the components. Connect grounding wire of the turntable to GND terminal on the RMA-80 rear panel.



(RMA-80 ONLY)

EXCLUSIVE NOTE FOR U.K.

If your unit comes with a 2-core cable without a plug, make certain live and neutral leads are connected to the proper terminals. Check that the terminals are screwed down firmly and no loose strands of wire are present.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

BLUE:	NEUTRAL
BROWN:	LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLUE or BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured BROWN or RED.

2. AM/FM tuner RMT-80

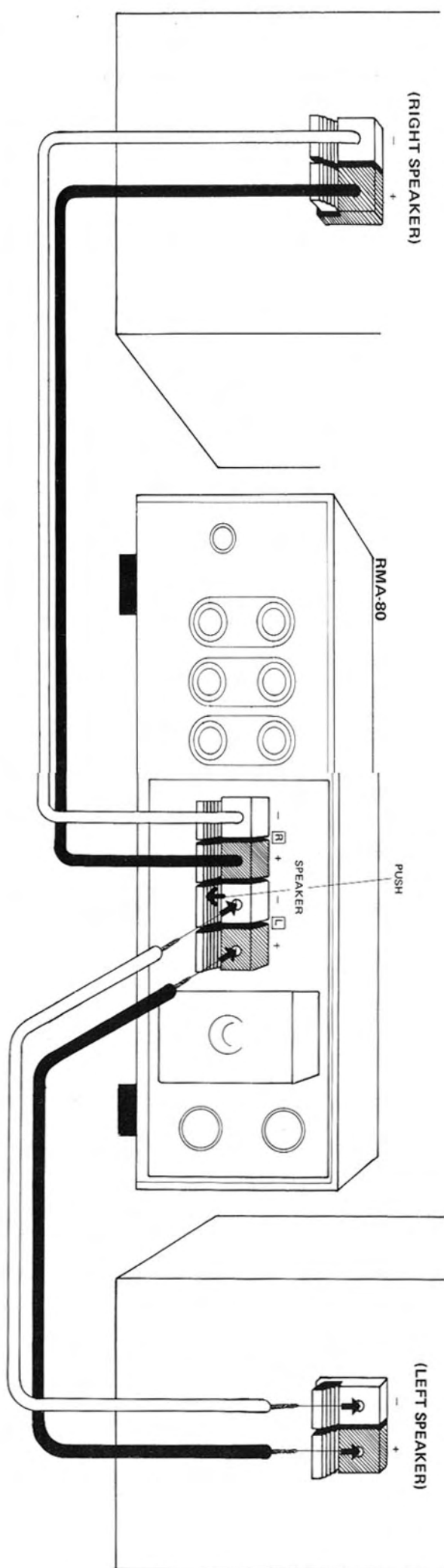
Connect the RCA pin cords extending from the tuner to TUNER terminals on the rear panel of RMA-80, correctly matching L and R terminals of the units.

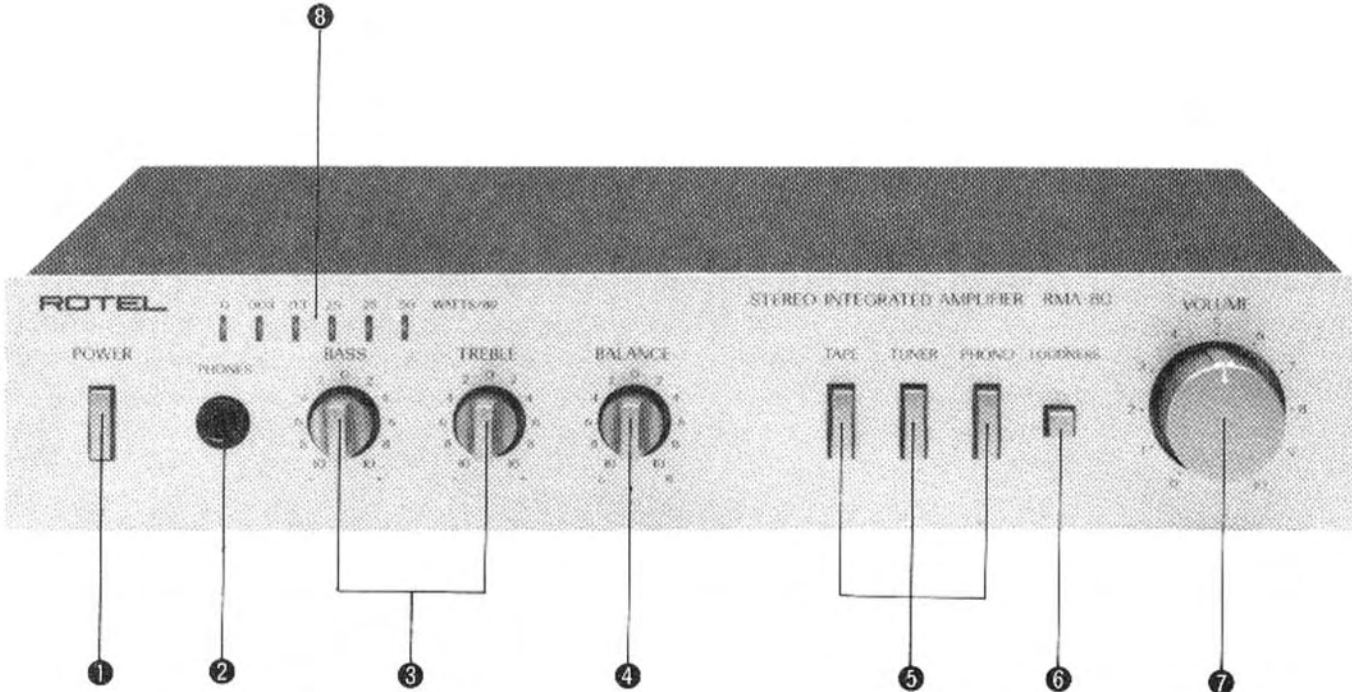
3. Cassette deck RMD-80

Connect RMD-80 RCA pin cords extending from LINE IN and LINE OUT, to TAPE terminals on the rear panel of RMA-80. LINE IN cords from the deck should be connected to TAPE OUT terminals of the amplifier; and LINE OUT cords to TAPE IN terminals. Be sure to correctly match L and R terminals of the units.

4. Speakers

Speaker terminals of RMA-80 are push-insert type. Connect the leads from the left-hand speaker to L-terminals, and the leads from the right-hand speaker to R-terminals, correctly matching (+) and (-) terminals of the components.





SWITCHES AND CONTROLS FOR RMA-80

(1) Power Button

Depress power button to turn on the amplifier. An LED marked "0" on the power indicator will light up when the power is on. Pressing the button a second time will turn off the unit.

(2) Headphone Jack

For headphone listening, plug your headset into this jack.

(3) Tone Controls (BASS/TREBLE)

Two separate controls regulate bass and treble respectively: BASS is for the low frequency range and TREBLE for the high frequency range. Rotate the knob clockwise to increase the response, and counter-clockwise to decrease it. A flat response is obtained when both controls are at mid-position. Use the controls effectively for optimum sound performance.

(4) Balance Control

This knob regulates the relative sound output from each channel. At mid-position, the level of sound from both speakers will be the same. Turning it to the right will cause the volume level of the left channel to decrease relative to the right, and vice-versa. Adjust the control according to your listening position.

(5) Function Selector Buttons (TAPE/TUNER/PHONO)

The function selector, consisting of three buttons, is used to select program you wish to hear — tape playback, AM/FM broadcast, or phono-graph record. Depress TAPE button for the deck RMD-80, TUNER button for the tuner RMT-80, and PHONO button for the turntable you have connected.

(6) Loudness Button

When listening at low volume levels, the human ear tends to become less sensitive to bass and treble notes. By depressing this button, those frequencies will be boosted and a more natural sound will be heard. Pressing the button a second time will deactivate the function. At higher volume levels, this button should be left released.

(7) Volume Control

This regulates volume level. No sound will be produced when it is in the leftmost position. Turning clockwise will increase the level.

(8) Power Indicator

Consisting of 6 LEDs, the Power Indicator instantaneously displays the changing power output level. The wattage marked above each LED is applicable to 8-ohm speakers.

PROTECTION CIRCUIT

To prevent accidental damage to the unit or speakers, a protection circuit is installed in the unit. If the unit suddenly stops operating, a blown fuse may be the cause. Accordingly, carry out the following check.

1. Turn off the unit.
2. Open the fuse box on the rear panel and check the two fuses: one is for the left channel and the other for the right channel circuit.
3. The blown fuse may be due to a short-circuited speaker cable or an overload resulting from the use of a low impedance speaker. Check the speaker cable, its connection and speaker impedance. Correct the cause of the trouble if any.
4. Replace the blown fuse with a new one and close the fuse box. If the fuse blows again despite taking the above action, cut off the power supply from your entire audio system and consult your dealer or a qualified electrician.

VOLTAGE SELECTION

Not available for U.K., Canada and Scandinavia

The unit is a variable voltage equipment that can run on 120V, 220V or 240V power supply. Your unit should already be preset at the proper voltage for use in your area. However, if you move to an area where the power supply voltage is different, the voltage setting can be manually changed. **BE SURE THAT YOUR UNIT IS NOT CONNECTED TO THE POWER SOURCE BEFORE ATTEMPTING TO MAKE THIS CHANGE.** To check the voltage setting, remove the name plate on the rear panel and locate the **VOLTAGE SELECTOR**. Use a screwdriver to turn the voltage selector to the required voltage.

HUM AND NOISE

In any high fidelity installation, hum may be caused by the interconnection of a turntable, tuner and amplifier, and speakers as the result of wiring, different grounding or locations of components.

If hum is experienced with your unit, disconnect everything but the speakers from the unit.

Plug in the turntable and if hum or howling appears, move the turntable away from the speakers as much as possible.

Note hum may also be induced by defective cable connections or by running the cables too close to a strong AC field.

When your unit picks up noise during the reception of broadcasts, causes are mostly due to external objects such as fluorescent lamps and house appliances using motor or thermostat, or others that may induce the noise.

Either relocating the unit away from the noise sources or using an improved outdoor antenna may readily solve the problem.

In the event you cannot find the cause, consult your dealer or a qualified electrician.

OPERATING MICRO COMPONENT 80 SYSTEM

Before Operation

- Check to see that the power cord is connected correctly.
- Check to see that all audio components are correctly connected.

A. Playing the turntable

1. Depress PHONO button of the function selector on RMA-80.
2. Depress POWER button on RMA-80.
3. Start playing the turntable, according to the instructions provided with the turntable.
4. Raise the volume on RMA-80 to the desired level.

B. Operating AM/FM tuner RMT-80

1. Depress TUNER button of the function selector on RMA-80.
2. Turn on POWER switch of RMA-80 and STANDBY button of RMT-80.
3. On model RMT-80, depress AM button to receive AM broadcast, and FM button to receive FM. On Model RMT-80L, AM broadcast is received in either MW or LW mode. When the AM/FM selector button on the left is in released position, the unit is in the AM mode. Leave the MW/LW button on the right released to receive MW broadcast, and depress it to receive LW broadcast. When the AM/FM button is depressed, the unit receives FM broadcast irrespective of the position of MW/LW button. Tune in to the desired station by turning the tuning knob.
4. Raise the volume on RMA-80 to the desired level.

C. Operating cassette deck RMD-80

1. Depress TAPE button of the function selector on RMA-80.
2. Turn on POWER switch of RMA-80 and STANDBY button of RMD-80.
3. Set the tape selector and Dolby NR switch on the deck according to the type of tape to be used.
4. Load the cassette tape, and depress PLAY button on the deck.
5. Raise the volume on RMA-80 to the desired level.

D. Recording from tuner or turntable

The Function Selector buttons on RMA-80 are used in selecting the signal source for recording. The signal of the selected source will appear at TAPE OUT terminal on the rear panel of RMA-80. Use

PHONO button to record signal from the turntable; and TUNER button to record signal from the tuner.

1. Play the desired source: tuner or turntable. (See sections A and B.)
2. Select the appropriate Tape Selector button on RMD-80 according to the type of tape used. Depress Dolby NR switch if you wish to record through Dolby NR circuit.
3. Turn on the POWER switch on RMD-80.
4. Load the cassette tape. Depress PAUSE button.
5. Then depress REC and PLAY buttons simultaneously. Now the deck is in "stand-by" condition, ready to start recording.
6. Adjust the recording level by turning the REC LEVEL control clockwise so that the level indicator reading does not exceed 0dB position frequently, or only very briefly. (See figure.)
7. Press the PAUSE button to start the tape, and recording will begin.

- To make live recording using microphones, plug microphones into the microphone (MIC) jacks on the front panel of RMD-80, and then follow steps 2 through 7 above.

- When recording from tuner or turntable, tone, balance and volume controls and loudness button on RMA-80 may be used as desired; manipulating those controls and button will have no effect on the recording signal.

- Before recording, be certain that the safety tabs on the cassette tape are not broken.



REC LEVEL CONTROL
(RMD-80)

SPECIFICATIONS

Continuous Power Output . . . . .	.25 watts* per channel min. RMS, both channels driven into 8 ohms from 20 to 20,000Hz with no more than 0.08% total harmonic distortion.
Total Harmonic Distortion.	No more than 0.08%
(20 to 20,000Hz, from AUX)	(continuous rated power output)
	No more than 0.08%
	(continuous 1/2 watt power output)
	No more than 0.09%
	(1 watt per channel power output, 8 ohms)
Intermodulation/Distortion	No more than 0.05%
(60Hz : 7kHz = 4 : 1)	(continuous rated power output)
	No more than 0.04%
	(continuous 1/2 watt power output)
	No more than 0.04%
	(1 watt per channel power output, 8 ohms)
Damping Factor . . . . .	.35 (20 to 20,000Hz, 8 ohms)
Output: Speaker	A: (8 to 16 ohms)
Headphone . . . . .	.8 to 16 ohms
Input Sensitivity/Impedance	
Phono . . . . .	.25mV/47 kohms
Tuner. . . . .	.150mV/42 kohms
Tape in. . . . .	.150mV/42 kohms
Overload Level (THD 0.1%, 1kHz)	
Phono . . . . .	.185mV
Tuner.	Not less than 5V
Frequency Response	
Phono . . . . .	.30 to 15,000Hz±0.5dB (RIAA STD)
Tuner, Tape in. . . . .	.5 to 70,000Hz +0dB, -1.0dB
Tone Control	
BASS.	±10dB (50Hz)
TREBLE.	±10dB (15kHz)
Loudness contour (Volume control set at -40dB position)	+10dB (100Hz), +4.0dB (10kHz)
Signal-to-Noise Ratio (IHF A network)	
Phono . . . . .	.75dB
Tuner, Tape in. . . . .	.95dB
Power Requirement. . . . .	.120V/60Hz, 220V/50Hz, 240V/50Hz, 120V, 220V, 240V/50-60Hz
Power Consumption . . . . .	.150 watts
Dimensions (overall) . . . . .	.279 (W) x 64 (H) x 206 (D)mm
	11" (W) x 2-1/2" (H) x 8-1/16" (D)
Weight (net) . . . . .	.3.2kg
	7.0 lbs.

*Measured pursuant to the Federal Trade Commission's Trade Regulation Rule on Power Claims for Amplifiers (applicable to the U.S.A. only).

Note: Specifications and design subject to possible modifications without prior notice.